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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 327.808 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-7

Perfect score: 1756

Sequence: 1 MNISSEPCILICMIFLCL.....FDRATYLNHNSCLGAPLPEC 332

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:

1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	352	20.0	910	US-10-101-464A-72	Sequence 72, App1
2	351	20.0	828	US-10-101-464A-934	Sequence 934, App
3	350	19.9	705	US-10-101-464A-894	Sequence 894, App
4	341	19.4	804	US-10-101-464A-890	Sequence 890, App
5	340	19.4	304	US-10-101-464A-717	Sequence 717, App
6	331.5	18.9	692	US-10-101-464A-897	Sequence 897, App
7	329	18.7	843	US-10-101-464A-893	Sequence 893, App
8	325.5	18.5	370	US-10-101-464A-944	Sequence 944, App
9	325	18.5	381	US-10-101-464A-960	Sequence 960, App
10	320.5	18.3	541	US-10-101-464A-913	Sequence 913, App
11	320	18.2	919	US-10-101-464A-642	Sequence 642, App
12	320	18.2	1133	US-10-101-464A-809	Sequence 809, App
13	319.5	18.2	1021	US-10-101-464A-954	Sequence 954, App
14	315.5	18.0	1196	US-09-823-394-2	Sequence 2, App1
15	314.5	17.9	1161	US-08-910-386A-20	Sequence 20, App1
16	314	17.9	645	US-10-101-464A-920	Sequence 920, App
17	314	17.9	974	US-10-101-464A-921	Sequence 921, App
18	311.5	17.7	1166	US-10-101-464A-900	Sequence 900, App
19	309	17.6	998	US-10-101-464A-931	Sequence 931, App

20	307.5	17.5	996	US-10-101-464A-889	Sequence 889, App
21	307.5	17.5	996	US-10-101-464A-933	Sequence 933, App
22	306	17.4	960	US-08-910-386A-18	Sequence 18, App1
23	302	17.2	864	US-10-101-464A-896	Sequence 896, App
24	301.5	17.2	998	US-10-101-464A-895	Sequence 895, App
25	301.5	17.2	998	US-10-101-464A-914	Sequence 914, App
26	300.5	17.1	996	US-08-910-386A-5	Sequence 5, App1
27	300.5	17.1	1025	US-08-910-386A-7	Sequence 7, App1
28	296.5	16.9	813	US-08-910-386A-2	Sequence 2, App1
29	296.5	16.9	813	US-08-910-386A-9	Sequence 9, App1
30	294.5	16.8	947	US-10-101-464A-73	Sequence 73, App1
31	293.5	16.7	990	US-10-101-464A-814	Sequence 814, App
32	290	16.5	685	US-10-101-464A-918	Sequence 918, App
33	289	16.5	660	US-10-101-464A-808	Sequence 808, App
34	289	16.5	984	US-10-101-464A-919	Sequence 919, App
35	287.5	16.4	633	US-10-101-464A-811	Sequence 811, App
36	285.5	16.3	281	US-10-101-464A-619	Sequence 619, App
37	285	16.2	854	US-09-754-853A-1103	Sequence 1103, App
38	284	16.2	854	US-09-754-853A-1105	Sequence 1105, App
39	283.5	16.1	547	US-10-101-464A-928	Sequence 928, App
40	283	16.1	854	US-09-754-853A-1098	Sequence 1098, App
41	283	16.1	854	US-09-754-853A-1101	Sequence 1101, App
42	283	16.1	854	US-09-754-853A-1107	Sequence 1107, App
43	283	16.1	854	US-09-754-853A-1109	Sequence 1109, App
44	282	16.1	383	US-10-101-464A-898	Sequence 898, App
45	282	16.1	854	US-09-754-853A-1111	Sequence 1111, App

ALIGNMENTS

RESULT 1
US-10-101-464A-72
; Sequence 72, Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions isolated from plant cells
TITLE OF INVENTION: and Their Use in the Modification of plant Cell Signaling
FILE REFERENCE: 11000.102062
CURRENT APPLICATION NUMBER: US/10101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704.302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228.986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162.866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 72
LENGTH: 910
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-72
Query Match 20.0%; Score 352; DB 9; Length 910;
Best Local Similarity 31.2%; Pred. No. 2.2e+24;
Matches 110; Conservative 38; Mismatches 125; Indels 80; Gaps 10;
QY 30 NNNDQALLQITLAL---KNPITTSWSDDCGMDLVECDTNRRIISLIQDEALIT 86
DB 34 NASDDHALAFSAITYPDSOSLATSPNVSFCWMTGICRRRQRYISLNV-SSMGIO 92
QY 87 GQIPQVQDLPYQALWFRKLPNLFG-KIPEISALQKUSLRISSTSGCVLPFPQL 145
DB 93 GTSISPLANLSTLYLDLHN--NSTDCIHPIYQGLTFPLKMLRLSKNOQSGIPIPTLANC 150
QY 146 TKLTGLDSFNKLGLGVIPDQSTLPNLKALHLERNELTGEIPIDFGNFAGSPDIYLSHNO 205

Db 151 RSLRNLTSFNNLTNIPQCLLPNLCMSLGINNLTGTPDCLGNISLQVLSLQGN 210
OY 206 LTGVPKTFAR-ADPRLDFSGNRLEGDISFLFGPKRLEMD----- 247
Db 211 LOGSVPSSELGRLSQIIVDLFGNHLTGCI PSSLSCTNLELLDGDQVGHIPSHLCTK 270
OY 248 -----FSGNVLS--FNFSRVQEPFPELTLDNHNQISGSLSELA--- 288
Db 271 KTOULMYRLGANOJSGSVPSLFFNCTKQE-----IALPVNQLSGIVMEIGKLTHL 323
OY 289 -----DLQTFVNSDNLGCKIPTG-GNIOQR 312
Db 324 QRLFFGNGVFIISGNTMRCPIILTALSNGSDLDQVLDSENNFTGOLPFSIGHLSK 376

RESULT 2
US-10-101-464A-934
; Sequence 934, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 934
; LENGTH: 828
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-934

Query Match 20.0%; Score 351; DB 9; Length 828;
Best Local Similarity 25.2%; Pred. No. 2,4e-24;
Matches 112; Conservative 62; Mismatches 123; Indels 148; Gaps 13;
OY 21 PNLSASQRCNNNDKQALLQIKTALKNPJTID-SWVSD-----DCCGMDLVECDENR 73
Db 36 PSLEPSSISAGYHEKRDVEALLTFRKGITLDPRYGLMNTAMNSHNVCWANGISCSNTR 95
OY 74 IISLIQ-----DDEALTGOIPPOVDLPYLO----- 102
Db 96 VVSIISLRVRLNGTSLPYIGNLSLRHLDLSSVNASGRIPAEFGQKALRIIDLSSNTLT 155
OY 103 -----WFRKLPNLF-GKIPPEISALDKSLRSTSSLSGPVPL 140
Db 156 GSIPTCIGRNGLTLDVLSW-----NAFSGRIPELNTCRLOKIDSHNSLTGSTPT 210
OY 141 FFPQTLTKLCLDLSFNKLGVIPPOLSTLPNKAHLERNELTGETIPDI FGNFAGSPDIY 200
Db 211 SIGNCALLLOKLTGTFNYLGSIPAEIGRLVHLESIMLESNALSGSIPSTLANCTSLTDIV 270
OY 201 LSHNOLTCGVPTKTFARADP-R-----LDPSGNLEGDISF 235
Db 271 ISSNNLSGPIPEEFSLVSLKFLWFEDNISIGSIPSTLVNCTSLPSLKSGKNKLSGPIS 330
OY 236 LFGPKRLEMLDFSGNVLS-----FNFSRVQ-----YLT 270
Db 331 VMGLMKISTITDLSNNSLGHIPPTLFFNCTQLXELYLSTNNLRSSISIPSTITDIDLVL 390

OY 271 DLNHNQISGSLSELA---DLQTFVNSDNLGCKIP 305
Db 391 DLSNNQISGLPRVIGGLSSLSQSVLSNNLTGSLSHNIGQLSDQLDLSSNNLTGSLP 450
OY 306 TG-----GNIOQRPRTAYLANHSCLCG 326
Db 451 LSISHIEDLOELD---LYNNNIFG 471

RESULT 3
US-10-101-464A-894
; Sequence 894, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 705
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-894

Query Match 19.9%; Score 350; DB 9; Length 705;
Best Local Similarity 21.7%; Pred. No. 2,4e-24;
Matches 128; Conservative 55; Mismatches 126; Indels 282; Gaps 15;
OY 24 SASQRCNNNDKQALLQIKTAL-KNP-TIDSSVSD--DCCGMDLVECDENRIISLI 79
Db 37 SSMARHEKRDVEALLSFRNATADPHGLISMTANSAITCSWNGICRKOSSRVASIVL 96
OY 80 ODD-----EALTGOIPPOVDLPYLO----- 100
Db 97 RFSHLEGTSPSVGNISLHFTFVLTVNKTGRIPPEFQOLKALOTLDLYRNLSGSVGE 156
OY 101 -----ALW----- 103
Db 157 LGLLOKLENLHGNLBSIIPPSLGNCSSTLSWMAGFYSRRVLPQGSIPAGSIPAEV 216
OY 104 -----FR-----KLP-----NLFKIPPEISALDKSLRSS 131
Db 217 GNCSHLSSLSLVRFFLTGFVPDIYRLPLSLDLRENNLTCKLPKALANLSHLTSLQGS 276
OY 132 TSLSGPVLPFPQTLTKLCLDLSFNKLGVIPPOLSTLPNKAHLERNELTGETIPDI FGF 191
Db 277 NNFISIPKAITNLKLOFLODLSYNYLTGIIIPKGVGKLSHLEHLYLESNNLTGSPISYN 336
OY 192 NFASSPDIYLSHNOLTCGVPTKTFARADP-R-----LDPSG 226
Db 337 GLFSLQVLDLSQNNLEGPISPKSINGCTSMRVFSAHSNKISGTLTSLANSTQRLDLRR 396
OY 227 NRLEGDI-----SFLFGR-----KKRLEMDLDFSGNVLS----- 254
Db 397 NRLMGEIPSYLAIFHDUKILTLANHNHGHPIPWITNLKKLVHVDLSNNRFSGLPOLD 456
OY 255 ----- 254
Db 457 RLSGFTINESAPMDGVTTITQFGIEYFTNFSDETLFFEFEMVFDIKGVEYKLPYVLPISTIF 516

OY 255 -----FNFSRVQ---EPPPSLT-----YLDLNHNQISGSL 282
 Db 517 DLSSNSLNGQIPITSIGNSSRLNLNLSRNOLEGLPASTLSISALEQDLKNNLSGEP 576
 OY 283 SELAKL-DLQTFNVSDDNLGCKIPTGSLQGFDRFAYLHNSCLGAPPEC 332
 Db 577 QELSQLHGLVFDVSSNNLGGPIGTQFTFNVTSFGQRNKLVCGLDTC 627

RESULT 4

US-10-101-464A-890
 ; Sequence 890, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000.1020C2
 ; CURRENT APPLICATION NUMBER: US/10/101.464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,866
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 890
 ; LENGTH: 804
 ; TYPE: PRT
 ; ORGANISM: Pinus radiata
 US-10-101-464A-890

Query Match 19.4%; Score 341; DB 9; Length 804;
 Best Local Similarity 28.6%; Pred. No. 2e-23;

Matches 110; Conservative 52; Mismatches 107; Indels 116; Gaps 14;

OY 47 PTTTSSWSDDCDCMDEVCDETSNRIT-----SLIIDDEALTGQIPQ 92
 Db 357 PSITDT-----DLVYLDLSNNQLIGSLPRNIGQLSSLSQSLVLSNN-LTSGSLHN 405
 OY 93 VGDLPYLQALWFRKLPNLFGRKIPRISALKDKSLRSLSTSLSGFVPLFFPOLTKLTCGLD 152
 Db 406 IGOUSDRLRLDLSN-NNLITGSLPLSISHIEDLOEIDLNNNIFGTIPMTI-SLTSLQILD 463
 OY 153 LSFNKLGVIP-----POLS-----TLp-----NLKALHLENELTGEIPD 188
 Db 464 LSKNNLDSIPBELNSCEPLSFQYHTNKLSGTLPMFLANCIEIOYDLRKNLTLGHLPH 523
 OY 189 IFGNFA-----GSPD-----IYLSHNOLTGFVPKTFAR----- 216
 Db 524 YLKSFSSELLILFGYNNHGGIPREWNTFTLYLDLSNNKFSGRMPLHFERLOGFVNS 583
 OY 217 -----ADPRLDPSGRLGDISLFLFGPKKLEMLDFSG- 250
 Db 584 NNDSEKEITVHMKGEYTLPLYSSENTITLDSNNMLVGOIPPSIGITLDRMLRLNSGQ 643
 OY 251 --NVLSNFSRVQEPPLSLTYLDLNHNQISGSLSELAKL-DLQTFNVSDDNLGCKIPTG 307
 Db 644 LEGIIPASLSNIS-----TLBGLDLSKNNLSCHITPQELSKLXLAVLDVSSNSLGGPIPG 699
 OY 308 GNLQRFRTAYLHNSCLGAPLPEC 332
 Db 700 TQSTFSATSFQRNKLVCGLDSC 724

RESULT 5

US-10-101-464A-717
 ; Sequence 717, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000.1020C2
 ; CURRENT APPLICATION NUMBER: US/10/101.464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,866
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 717
 ; LENGTH: 304
 ; TYPE: PRT
 ; ORGANISM: Pinus radiata
 US-10-101-464A-717

Query Match 19.4%; Score 340; DB 9; Length 304;
 Best Local Similarity 33.8%; Pred. No. 6.3e-24;
 Matches 103; Conservative 32; Mismatches 110; Indels 60; Gaps 9;

OY 86 TGOIPPOVGDLPYLQALWFRKLPNLFGRKIPRISALKDKSLRSLSTSLSGFVPLFFPOL 145
 Db 2 SGSIIPASWGNLSLTDLYLNG-TGLAGSIPESIGLSKLGQDLSSNNLSSGSLPELSKL 60
 OY 146 TKLTCLDISFNK-----LLGVIPPOLSTLPN-LKALHLER 179
 Db 61 SDLQNLDSFNNRFFVTVPVISNLGTGLQSLAGCGEGIIIPWLSMPNGLSTLDLS 120
 OY 180 NELTGEIPDIGNAGSPDIYLSHNOLTGFVPKTFARADPRL-IDFGNRLGDISFLFG 238
 Db 121 NNITGITPTWGNNTGLYNLNLNNALTLTPEAMSNURNLGVLDLSNYLTGPIAFA 180
 OY 239 -----PKRLEMLDFSGN-----VLSNFSRVQEPFPS-----LT 268
 Db 181 MQSPFPGLLETVDLSNNKFTASIPSSVGNGMGQVLSHNSLR-CAISTGLSLAQLO 239
 OY 269 YLDLNHNQISGSLSELAKL-DLQTFNVSDDNLGCKIPTGMLQRFDRFAYLHNSCLGCA 327
 Db 240 TLELNENHLTGKIPNAFVNLTSLQLNVSHNSLSGMIPVGGLQKFPISYSGNRRLCGD 299
 OY 328 PLPEC 332
 Db 300 PLPAC 304

RESULT 6

US-10-101-464A-897
 ; Sequence 897, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000.1020C2
 ; CURRENT APPLICATION NUMBER: US/10/101.464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-01-11
 ; PRIOR APPLICATION NUMBER: 09/228,986

PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 897
 LENGTH: 692
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-897

Query Match 18.9%; Score 331.5; DB 9; Length 692;
 Best Local Similarity 33.8%; Pred. No. 1.3e-22;
 Matches 102; Conservative 51; Mismatches 110; Indels 19; Gaps 12;

QY 21 PNLASQRCNNNDK---QALLQI-KTALKNP--TITTSWVSD--DCCGMOLVECDSTN 72
 DB 33 PSLFSSISAGYHEKRDVEALLSFRKGIISDPHGSLD-WTANNSHNVCLMNGISCRPNTN 91
 QY 73 RIISLIIODEALITGOIPQVGDLPYLQALMFRKLPLFGKIPPEISALDKLSLST 132
 DB 92 RAVISISLPYGR-LSGTISPIYIGNLSLRVLYLSN-NDLSGRIPAEFGNLSLRQLDLSN 149
 QY 133 SLGVPVLPFPOLTKLTCLDLSFNKLGVIPPOLSTPNKALHLENELTGEIPDIFGN 192
 DB 150 DLGRIPIAEFGNLSLRQSDLSNDLSGRIPADFGNLSLRQLDLSNDLSGRIPAEFGN 209
 QY 193 FASGPDIYLSHNLQTVGPKTFARADPIRL-DPSGNLECDISFLFGPKRLEMLDFSGN 251
 DB 210 LSLRLQDLISYNAFSGRIPADIGNCALQMFHIOQVNLFRSGIPAEFGRLVHLESLWLMN 269
 QY 252 VLSFNSRVQEPSPSLTYLPLNHNQISGLSSE---LAKLDLDTFVNSNNLCGKIPTG 307
 DB 270 ALSGRITSLGNC-TSLTDDINNHNNSGPISEFSLVLEILWEN--DWGISGSIPTSI 326
 QY 308 GN 309
 DB 327 GN 328

RESULT 7

US-10-101-464A-893
 Sequence 893, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101.464A
 PRIOR FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 893
 LENGTH: 843
 TYPE: PRT
 ORGANISM: Pinus radiata
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (1) (643)
 OTHER INFORMATION: Xaa = Any Amino Acid

US-10-101-464A-893

Query Match 18.7%; Score 329; DB 9; Length 843;
 Best Local Similarity 29.3%; Pred. No. 3e-22;
 Matches 96; Conservative 59; Mismatches 133; Indels 40; Gaps 10;

QY 10 ILICIMIFCLPPLNAS-----QRCNNNDKALLQIKTALKNPITD-- 51
 DB 4 LLLVMMFVCSVMGMGAMPTDGTSTVESVPFNGRNRHKKRDVEALLSFKESI---ISDPY 59
 QY 52 ---SWVSD--DCCGMOLVECDSTNRIISLIIODEALITGOIPQVGDLPYLQAL--- 102
 DB 60 GSLTWANNSHNVCLMNGISCRPNTKRVYSISLPEC-WLNGTSLPYIGNLSLRQLDLS 118
 QY 103 WRKRLPFLGKIPPEISALDKLSLST--LSGVPVLPFPOLTKLTCLDLSFNKLIG 160
 DB 119 W---NALSGRIPIAEFGOLKALRIIDLASHSLLHGYIPKELFNCRTLQRIOLSHNSFTG 174
 QY 161 VIPPOLSTPNKALHLENELTGEIPDIFGNFASPDILYSHNOLTVGPKTFARADP- 219
 DB 175 STPTSGNALLQTMNLAEQNLGSIPIAEFGRLVHLESLQLSNTLSGSIPTSLANCTSL 234
 QY 220 IRLDFSGNRLBGDISFLFGPKRLEMLDFSGNLSFNSRVQEPSPSLTYLPLNHNQISG 279
 DB 235 IKLELSDNNLSGPISEFSLVRLLETLLFDONSISGSIPTASISNCTSLQYDIDONSLSG 294
 QY 280 SLSEELAKL-DLQTFVNSDNNLCGKIPT 306
 DB 295 PIPSEFSLVLSLELYFHDNSISGSIPT 322

RESULT 8

US-10-101-464A-944
 Sequence 944, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101.464A
 PRIOR FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 944
 LENGTH: 370
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-944

Query Match 18.5%; Score 325.5; DB 9; Length 370;
 Best Local Similarity 28.8%; Pred. No. 1.9e-22;
 Matches 97; Conservative 50; Mismatches 131; Indels 59; Gaps 9;

QY 31 NNDKQALLQIKTALK-NPTITDSWV--SDDDCCGMOLVECDSTNRIISL----- 77
 DB 34 SDDGATLLAIKKSFRSDNVLYNMWIDSASDHCSMRGVTCDNVTFVAVVALNLSHNLGCE 93
 QY 78 -----IIODEALITGOIPQVGDLPYLQALMFRKLPNLFGKIPPEISALDKL 124
 DB 94 ISPIYGNLKSLESIDKGNLSGOIIPDEIDCGALKILDV-SINYLVGDIPIFSISKOL 152
 QY 125 KSLRLSTSLSGVPLFPOLTKLTCLDLSFNKLGVIP----- 163

Db 153 EQLIKNNQWMPFISTLSQIPNLKKMFADNQLSGEIPRLIYWEVLQYGLRNNPLVG 212
164 ---POLSTLPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI 220
Db 213 TUSPMQCLTGLMFEDVGNLNLSTIPENIGCTSYAVLDSYNQLGGEIPENICFLOVA 272
QY 221 RUDFSGNLEGDISTLFPKKRLEMLDPSGNVLSFNSRVOEFPPSLTYLD---LNHNQI 277
Db 273 TUSLQGNKLTGKIPREVICMLQALTYLDLSDNHLT---GTIPISIGLNTYTDKLYLSHNNL 329
QY 278 SGSLSSELAKL-DLQTFVSDNNLCGKIPTG-GNQR 312
Db 330 TGSIPPELGNNMTKLGVLQNLNQLTGQIPPELGNLQ 366

RESULT 9
US-10-101-464A-660
; Sequence 660, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 660
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-660

Query Match 18.5%; Score 325; DB 9; Length 381;
Best Local Similarity 33.8%; Pred. No. 2,3e-22;
Matches 94; Conservative 37; Mismatches 119; Indels 28; Gaps 7;

QY 64 LVECEETSNRIISLIIODEALTGOIPPOVGDLPYLQALMFRLPN-LFGKIPPEISALK 122
Db 73 LLEVLLSSNK-----LTGFIPDLICGKLQIIL--LENFFGPIPEISGNC 119
QY 123 DKSLRLSTLSISGVPLFFPOLTKLCLDSFNKLVIPQSLTLPNLKALHLERNEL 182
Db 120 SLTRRMGNVNYNGSIPKGLVLPKLGMEVDNVLSSGIPKSTVTSLSGLHSNNRL 179
QY 183 TGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI-RUDFSGNLEGDISTLFGPKK 241
Db 180 TGPJPDSTIGKSNLQIILLDGNQFTGSIPELGHKELSKMDPSGNRSRGA1PPEISYCK 239
QY 242 RLEMLDPSGNVLSFNSRVOEFPPSLT-----YLDLHNQISGSLSSELA-KLDLQTF 294
Db 240 HLAETIDSRNELSGPIS-----PQITKRLNLYNISRNLHVLVSIPREIAGMLSTLSVD 293
QY 295 VSDNNLCGKIPTGNTLQRFDRITALHNSCLCGAPLPEC 332
Db 294 FSYNNLSGLVGTGQFSYFNATSPAGNPELGGPYLGP 331

RESULT 10
US-10-101-464A-913
; Sequence 913, Application US/10101464A

; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 913
; LENGTH: 541
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-913

Query Match 18.3%; Score 320.5; DB 9; Length 541;
Best Local Similarity 22.4%; Pred. No. 1e-21;
Matches 118; Conservative 67; Mismatches 136; Indels 205; Gaps 15;

QY 6 SFCPIICIMIFLCPLNLSASQRCNNNDKQALQITALKNPITDSWSDDC--CGWD 63
Db 17 STIP-----CLVFLCLLSNAESQIDQEOVLKLRQSRWDPSSLDBWVASNSSSHCTWP 72
QY 64 LVECEETSNRIISLI-----IODEALT----- 86
Db 73 EITCGEGISELNLVNLNINYSIPEPICDKSLTKLDISYNNIPGGFTVLYNSKLYVL 132
QY 87 -----GQIPPOVGDLPYLQA----- 101
Db 133 DLSQVYFEGPIPSDINRMANLQVLILAAANSFENVASVRLRLILHNOSEYNGTIP 192
QY 102 -----LWFKLP--NLFGKIPPEIS----- 119
Db 193 EEIFGLSNLESLGYNKDFVPSQLPQNFSLKLRFFSMQTNLYGCIPEITISOMEALE 252
QY 120 -----ALDKSLRLSTLSISGVPLFFPOLTKLCLDSFNKLV 161
Db 253 HLDVGINPLTGEIPGSIPTALNLSKLYVNTNVSGSIPOSV-SAANLSRIDLSFNNLTGN 311
QY 162 IPOLSTLPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI 221
Db 312 IPEDFGKLKLNLSCLSQNQLSGIPGIGRLPALSDVRSLSKNNLSGTTIPDFGKFSPLR 371
QY 222 -----LDPSGNLEGDISTLFGPKKLE--MLD---FSGN 251
Db 372 REEVAFNSLTGALPEQLCHGGLTFGLAVMDNNLGGELPEISGNCSTLSVNLNNGFTGN 431
QY 252 V-----LSFN---FSRVOEFPPSLTYLDLHNQISGSLSSELA-KLDLQTF 293
Db 432 VPGGLWMLRLNLIALISGNGLTGELPELSPLTRISMNNKFFGKIPSTVSSWKNLVF 491
QY 294 NVSDNNLCGKIPT-----GQNLQRFDRITALHNSCLCGAPLPEC 331
Db 492 DANNLNLSTGTTIPELTKLPFGSGAFARASERALWESSDSHFVELLE 537

RESULT 11
US-10-101-464A-642
; Sequence 642, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy

```

; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 642
; LENGTH: 919
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-642

```

```

Query Match      18.2%; Score 320; DB 9; Length 919;
Best Local Similarity 28.5%; Pred. No. 2,4e-21;
Matches 99; Conservative 42; Mismatches 114; Indels 92; Gaps 9;

```

```

QY 64 LVEDETSNRILSLIIDDDEALTGQIPPOVGDLPYQAL--WFKRLPNLFGKIPETISAL 121
DB 175 LSQSQKKKIDFSL-----NYLVGSIPAEIGMLENLQLAMFN---GLEGEIPPELGKC 226
QY 122 KDLKSRLSSTSLSGPVLPFPOLTKLTCUDLSFNKLGVPOLSTLPLNKAHLERNE 181
DB 227 RNKKNLILNNHNLKGEIPTELFNCSNLEWISLTSNELTGEVREVMULSLAVLQLGNS 286
QY 182 LTGEIPDIFGNFAGSPDIYLSHNQLTGFVPR----- 212
DB 287 LSGQIPWELGNCSSLMWLDLSSNKLTEIPRLGRQLGAKPAGIPSGNTLVFVRNVNT 346
QY 213 -----TFAR--ADPI-----RUDFGNRLEGD 232
DB 347 CKGVGLLEFAGIRPRLLOVPSLRTCNFAWMSGPLSKFTTYQVTEYLDLSDNQLRGK 406
QY 233 ISFLFGPKRLEMLDFSGNVLSFNSRVOEFPPSLTYL-----DLNHNQISGLSELA 286
DB 407 IPEFGDMVALQVLELSYNQLS-----GEIPSLGLKDLGVFEASHNRLOQOIPDSFS 460
QY 287 KLD-LQTFNVSDNNLCGKIPTGNGLQRFDRTRAYLHNSCLCGAPLPEC 332
DB 461 NLSFLVQIDLSYNDLTGQIPQRGQLSTLPASQYEHNPGLCGVPLPEC 507

```

RESULT 12

```

US-10-101-464A-809
; Sequence 809, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11

```

```

; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 809
; LENGTH: 1133
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-809

```

```

Query Match      18.2%; Score 320; DB 9; Length 1133;
Best Local Similarity 28.5%; Pred. No. 3,2e-21;
Matches 99; Conservative 42; Mismatches 114; Indels 92; Gaps 9;

```

```

QY 64 LVEDETSNRILSLIIDDDEALTGQIPPOVGDLPYQAL--WFKRLPNLFGKIPETISAL 121
DB 389 LSQSQKKKIDFSL-----NYLVGSIPAEIGMLENLQLAMFN---GLEGEIPPELGKC 440
QY 122 KDLKSRLSSTSLSGPVLPFPOLTKLTCUDLSFNKLGVPOLSTLPLNKAHLERNE 181
DB 441 RNKKNLILNNHNLKGEIPTELFNCSNLEWISLTSNELTGEVREVMULSLAVLQLGNS 500
QY 182 LTGEIPDIFGNFAGSPDIYLSHNQLTGFVPR----- 212
DB 501 LSGQIPWELGNCSSLMWLDLSSNKLTEIPRLGRQLGAKPAGIPSGNTLVFVRNVNT 560
QY 213 -----TFAR--ADPI-----RUDFGNRLEGD 232
DB 561 CKGVGLLEFAGIRPRLLOVPSLRTCNFAWMSGPLSKFTTYQVTEYLDLSDNQLRGK 620
QY 233 ISFLFGPKRLEMLDFSGNVLSFNSRVOEFPPSLTYL-----DLNHNQISGLSELA 286
DB 621 IPEFGDMVALQVLELSYNQLS-----GEIPSLGLKDLGVFEASHNRLOQOIPDSFS 674
QY 287 KLD-LQTFNVSDNNLCGKIPTGNGLQRFDRTRAYLHNSCLCGAPLPEC 332
DB 675 NLSFLVQIDLSYNDLTGQIPQRGQLSTLPASQYEHNPGLCGVPLPEC 721

```

RESULT 13

```

US-10-101-464A-954
; Sequence 954, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 954
; LENGTH: 1021
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-954

```

```

Query Match      18.2%; Score 319.5; DB 9; Length 1021;
Best Local Similarity 25.6%; Pred. No. 3,1e-21;
Matches 100; Conservative 40; Mismatches 111; Indels 139; Gaps 9;

```

```

QY 75 ISLIIDDEA---LTGQIPPOVGDLPYQALWFRKLPNLFKIPETISALKDLKSLRSLSS 131
DB 245 LSGVRLDAASGSGEIPPEIAKQNDLT--FLQVNFASGLPPEIOLYLSKSLSDSN 303

```

QY 132 TSLGSPVLPFPOLTKLTCL----- 151
Db 304 NMFACEIPESFSQKXNLTLHLFRNKLNGESPEFIADLPBQVLQWENNFTGSIPOGLG 363
QY 152 -----DLSEFNKLGVIPOLSS----- 167
Db 364 KNGHLQIVDLSNKLTKGLTLPBDCGNOLOLIALSNYLCPPIESIGKCSRLERIRMG 423
QY 168 -----TLPNLKAHL-----LERNELTGEIPDI 190
Db 424 NYLNGSIPRGFLPELNVQVEFQONLVGEPVSDSLALTKGQITLSNNKLGSLPPTI 483
QY 191 GNFGSPDIYVSHNQLTGFVKTARADPT-RDPSGNRLBGDISFLGPKRLEMLDFS 249
Db 484 GNFGSVQKLLDGNNSFGQIPPEIGRLOQLAKIDFSSNRVSGPIPAQISQCKLLTFVDLS 543
QY 250 GNVLSFNFSRVQFPFPLT-----YLDLNNQISGSLSSSLAKL-DLOTFNVSDDNNLCG 302
Db 544 GNELS-----GEIPNEITGKRLINLYNLSSNNLSGSIPEISITMOSLTIVDFSYNNLSG 597
QY 303 KIPTGKMLQRPDRATAYLHNSCLCGAPLPEC 332
Db 598 LVPGTQGFYSYENYTSFLGNEPLOGPYLGP 627

RESULT 14

US-09-823-394-2
Sequence 2, Application US/09823394
Publication No. US20030041344A1
GENERAL INFORMATION:
APPLICANT: Chory, Joanne
APPLICANT: Janning, Li
TITLE OF INVENTION: Salt Institute for Biological Studies
FILE REFERENCE: SALKINS.012CPI
CURRENT APPLICATION NUMBER: US/09/823,394
CURRENT FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 08/881,706
PRIOR FILING DATE: 1997-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1196
TYPE: PRT
ORGANISM: Arabidopsis
US-09-823-394-2

Query Match 18.0%; Score 315.5; DB 9; Length 1196;
Best Local Similarity 28.3%; Pred. No. 9, 2e-21;
Matches 112; Conservative 48; Mismatches 143; Indels 93; Gaps 13;
QY 20 LPNLAS-----ORCNNDKQALLQIKTALKNP--ITTSWSWDDCCG--DLVECD 70
Db 385 LTNLSASLITLDDSSNNSGFL--PNCQNPKNLLOELVONNGFTGKIPPTLSNCS 441
QY 71 SNRIISLIIDDEALTGQIPPOVGLPYLO--ALWFRKLPLNFCGIPREISALDKSLR 128
Db 442 ---LVSLHLSTN-YLSCGTPSSLSGLKRDKLMLNLE--GEIPOELMYVKTLETLI 494
QY 129 LSSLSLSPVLPFPOLTKLTCLDLSFNKLGVIPPOLSTLPNLKALHNERNEGTGEIPD 188
Db 495 LDFNDLTGEISGLSNCNTLNMWISLNNRLTGEIPKWIIGRLNLAIKLSNNSGNI 554
QY 189 IFGNFAGSPDIYLSHNQLTGFVKT- PARADPIRDF-----SGN 227
Db 555 ELGGCRBLIWLIDLNTLPLNGTTPAMFQSGKIANFLAGKRYVYIKNDGKKECHGAGN 614
QY 228 RLK-----GDISFLGPKRLEMLDPSGNVLSFNFSRVQ 261
Db 615 LLEFGQIRSEQLNLRSTRNPNINITSRYGHTSPTFDNNSGMFLDMSYNNLSGYIPKEI 674
QY 262 EFPSPSLTYLDLNNQISGSLSSSLA-----KLD-----LOTNVS 296

Db 675 GSWPYLFLNKGHNDIGSGIDVEVDRLGNIILDSSNKLDCGRIPQAWSALTMLEIDLS 734
QY 297 DNULCGKIPTGKMLQRPDRATAYLHNSCLCGAPLPEC 332
Db 735 NNLSGPIPEWGQFETFPAPKFLNNPGLCGYPLPRC 770

RESULT 15

US-08-910-386A-20
Sequence 20, Application US/08910386A
Patent No. US20020092041A1
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Yuang
APPLICANT: Song, Wen-Yuang
APPLICANT: Huibert, Scot
APPLICANT: Richier, Todd
TITLE OF INVENTION: Procedures and Materials for Confering
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,386A
FILING DATE: 13-AUG-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058950US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 1161 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-910-386A-20

Query Match 17.9%; Score 314.5; DB 8; Length 1161;
Best Local Similarity 30.3%; Pred. No. 1, 1e-20;
Matches 107; Conservative 52; Mismatches 125; Indels 69; Gaps 14;
QY 11 LCICMFLCLPNLSASORCNNDKQALLQIKTALKNP-ITDSVVS--DDCCGMDLVECD 68
Db 73 LILCVFPL-----VHGVALSSDSDSKSALELKASFSDSGVISNNSKNNHCHSGVGS 128
QY 69 ETSNRIISLI-----ODDEALTGQIPPOVGLPYLO 100
Db 129 SDS-RVALNITGNGLSLCAKIAQFPLVYGFITRVCAANSVKLVGVPLAISKLTELR 187
QY 101 ALWFRKLPL-NLFGKIPREISALDKSLRLSTLSGVPPLFPOLTKLTCLDLSFNKL 158
Db 188 VL---SLPNEHLRGDPLGIWMDKLEVLDOGNLITGSLPLEFKGLRKLRYNLGNQI 244
QY 159 LGVIPOLSTLPNLKALHNERNEGTGEIPDIFGNFAGSPDIYLSHNQLTGFVKTARAD 217
Db 245 VGLPISLNSCLALQFNLAGNRVNGTIPAFIGFEDLAGIYLSFNELSGSIPEGIRSC 304
QY 218 DPR-LDFSGNRLBGDISFLGPKRLEMLDPSGNVLS-----FNFSRVQFPSPSLTYLDL 272

Wed Jul 16 07:49:29 2003

us-09-308-140-7.open.rapb

Page 8

Db 305 EKIQSLSEMGALNIGVYIPKSLGNCNTRQSLQSLVLSYLLPEALPAERGGQITE---LELLDL 360

QY 273 NHNQISGSLSSEL---AKLDLQTF-----NVSDF-----NNLGKIKPT 306

Db 361 SRNLSLGRPLSELGNGSKSLVLSLSLMDPLPNVSDAHTTDETFNPFEGITPS 413

Search completed: July 16, 2003, 06:57:43
Job time : 328.808 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 61.202 Seconds
(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-7

Perfect score: 1756
Sequence: 1 MNIESSFCPIICIMIFLCL.....FDRTAYLHNSCLGAPLPEC 332

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/6CTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfilltest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	881.5	50.2	330	1 US-08-238-163-2	Sequence 2, Appli
2	844	48.1	327	1 US-08-238-163-4	Sequence 4, Appli
3	622	35.4	342	1 US-08-244-646-15	Sequence 15, Appli
4	622	35.4	342	1 US-08-592-936B-21	Sequence 21, Appli
5	622	35.4	342	2 US-09-111-573-21	Sequence 21, Appli
6	464.5	26.5	227	1 US-08-244-646-17	Sequence 17, Appli
7	352	20.0	910	4 US-09-228-986-72	Sequence 72, Appli
8	322.5	18.4	968	4 US-09-180-439-4	Sequence 4, Appli
9	320.5	18.3	968	4 US-09-180-439-3	Sequence 3, Appli
10	319.5	18.2	1016	4 US-09-180-439-8	Sequence 8, Appli
11	315.5	18.0	1196	4 US-08-881-706-2	Sequence 2, Appli
12	315	17.9	1112	4 US-09-353-585-2	Sequence 2, Appli
13	315	17.9	1112	4 US-09-353-585-3	Sequence 3, Appli
14	311.5	17.7	999	2 US-08-473-553A-5	Sequence 5, Appli
15	300.5	17.1	799	4 US-09-180-439-6	Sequence 6, Appli
16	300.5	17.1	1012	2 US-08-475-891A-4	Sequence 4, Appli
17	300.5	17.1	1025	2 US-08-567-375-4	Sequence 4, Appli
18	300.5	17.1	1025	2 US-08-567-375-4	Sequence 4, Appli
19	294.5	16.8	947	4 US-09-228-986-73	Sequence 73, Appli
20	283	15.9	863	4 US-08-666-271-2	Sequence 2, Appli
21	278.5	15.9	806	4 US-08-945-983-2	Sequence 2, Appli
22	273	15.5	980	2 US-08-473-553A-6	Sequence 6, Appli
23	273	15.5	985	2 US-08-473-553A-2	Sequence 2, Appli
24	268	15.3	968	4 US-09-228-986-76	Sequence 76, Appli
25	264	15.0	523	4 US-08-473-553A-3	Sequence 3, Appli
26	260.5	14.8	690	4 US-09-228-986-69	Sequence 69, Appli
27	260.5	14.8	711	4 US-09-228-986-79	Sequence 79, Appli

28	247	14.1	659	4 US-09-228-986-75	Sequence 75, Appli
29	241	13.7	655	4 US-09-228-986-70	Sequence 70, Appli
30	235	13.4	666	4 US-09-228-986-68	Sequence 68, Appli
31	231	13.2	638	4 US-09-228-986-74	Sequence 74, Appli
32	226.5	12.9	1023	2 US-08-475-891A-2	Sequence 2, Appli
33	226.5	12.9	1023	2 US-08-567-375-2	Sequence 2, Appli
34	226.5	12.9	1023	2 US-08-567-375-2	Sequence 2, Appli
35	225.5	12.8	707	4 US-09-228-986-80	Sequence 80, Appli
36	206.5	11.8	198	4 US-09-228-986-93	Sequence 93, Appli
37	204.5	11.6	630	4 US-09-228-986-71	Sequence 71, Appli
38	188	10.7	268	4 US-09-353-585-6	Sequence 6, Appli
39	174.5	9.9	247	4 US-09-228-986-105	Sequence 105, App
40	172	9.8	301	4 US-09-353-585-5	Sequence 5, Appli
41	172	9.8	544	2 US-08-567-680A-25	Sequence 25, Appli
42	169.5	9.7	151	4 US-09-228-986-95	Sequence 95, Appli
43	167	9.5	154	4 US-09-228-986-89	Sequence 89, Appli
44	155	8.8	277	2 US-08-567-375-16	Sequence 16, Appli
45	154.5	8.8	375	1 US-08-303-238-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: FOWELL, Ann
APPLICANT: STORTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
TITLE OF INVENTION: POLYGLACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Khourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2
Query Match 50.2%; Score 881.5; DB 1; Length 330;
Best Local Similarity 54.7%; Pred. No. 1,76-87;
Matches 181; Conservative 41; Mismatches 106; Indels 3; Gaps 3;
QY 3 IESEFCPIICIMIFLCLPNUSASQRCNNNDKQALLQIKTALAKNPTTDSWVSDDCCGW 62
DB 1 MELKSTFLSLTLFSSVLNPALSDLCNPDCKVLLQIKKAFQDPVYLASWKSSTDCDW 60

QY 63 DLVECDTSNRRIISLIQDDEALTGOIPPOVGDDLPYLQALMFRKLPNLFCKIPEEISALK 122
DB 61 YCVTCDSTNRINSLSLIFPAQ-VSGOIPALVGDLPYLETLEFHKOPNLGPIQPIAKLK 119
QY 123 DKSLRLSSTSGPVPPLFFPOLTKLCLDSFNKLGVIIPQSLTPYKALHIERNEL 182
DB 120 GLKSLRLSMTNLSGVPDLSQLKTLFDLSPNNLTGALPSSLSLPLGLARLDNRKL 179
QY 183 TGEIDPIDFQNPAGS-PDIYLSHNOITGFVPKTFARADPIRLDFSGNRLEGDISFLFGPK 241
DB 180 TGHIPISFCQFQIGNVDPDLISHNOISGNIPISFQMDFTSIDLSNKKLEGDSVIFGLNK 239
QY 242 RLEMDFGCVNLSFNSRVOEPPSLTYLDLNHOISGSLSESLAKDLQTFNVSNNLNC 301
DB 240 TQIIVDLSENLLFNLKSV-EFPTSLTSVDINHNNKIYGSIPVEFTQNLQFNLVSYNRLC 298
QY 302 GKIPFGNLOREFDRTAYLHNSCLCGAPLPEC 332
DB 299 GOIPVGKLOSTFDEYTFHNRCLCGAPLPEC 329

RESULT 2

US-08-238-163-4
Sequence 4, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESS: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307F-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-4

Query Match 48.1%; Score 844; DB 1; Length 327;
Best Local Similarity 52.8%; Pred. No. 2,1e-83;
Matches 171; Conservative 46; Mismatches 103; Indels 4; Gaps 3;
QY 11 LCICNIFLCPLNLSAQRCNNNDKQALLQITALKNPITTSWVSDDCQMDLVECDT 70
DB 5 LLLVVFILCFASPSLSVRCNPKDKKVLQIKKDLGNPYHLASWDRNTCCVWYVIKDKRK 64

QY 71 SNRIISLIQDDEALTGOIPPOVGDDLPYLQALMFRKLPNLFCKIPEEISALKDLKSLRLS 130
DB 65 TNRIINALIVFOAN-ISOQIPAAVGDLPYLETLEFHHVNTLGTIPPAIAKLTNKMRLS 123
QY 131 STLSGVPPLFFPOLTKLCLDSFNKLGVIIPQSLTPYKALHIERNELTGEIPDF 190
DB 124 FTNLGPIPEFLSQLKTLLELVNNOFTGIPSSLSQPLVLLMYLDNRNLTGTIPESF 183
QY 191 GNPAQS-PDIYLSHNOITGFVPKTFARADPIRLDFSGNRLEGDISFLFGPKRLEMULD 248
DB 184 GRFGPNIPDLVYSHNSLTGHVPASLGDNLNSTLDFSRNKKLEGDSVFLFGKNKTSQVIDL 243
QY 249 SGVLSFNSRVOEPPSLTYLDLNHOISGSLSESLAKDLQTFNVSNNLCKIPFG 308
DB 244 SRNLFEFDISK-SEFASLSLSDLNHNRIFGSLPPLGLKDVLPQFFNVSYNRLCCQIPGG 302
QY 309 NLORFDRAYLHNSCLCGAPLPEC 332
DB 303 TLOSFDIYSYLNKCLCGAPLPEC 326

RESULT 3

US-08-244-646-15
Sequence 15, Application US/08244646
Patent No. 5744592
GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESSES:
ADDRESS: Sally A. Sullivan
STREET: 5370 Manhattan Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-15

Query Match 35.4%; Score 622; DB 1; Length 342;

Best Local Similarity 41.0%; Pred. No. 3.1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

QY 2 NIESEFCILICIMFLCLPNLSAQRNNNDKQALLOIKTALKNPITTSWSDDDCCG 61
Db 5 NIPVTSSSSIIILVIVLSRTALSELCPQDKQALLOIKKDLNPTLSSWMLPTTDCN 64
QY 62 --WDVCECDTSN--RIISLIIDDEALTGO-----IPQVGDLPYLQALMFRKLPNL 110
Db 65 RTWGLVCLDTDTQYRVNNL-----DLSGHNLKRPPIPSLANPLYNFLVIGGINL 118
QY 111 FGKIPPEISALKDKSLRLSTSLSGVPLFFPQTLTKTCLDLSFNKLLGVIPQSLTP 170
Db 119 VGPIPAIAKLTQHLHYITHVNSGAIIPDLISQIKTLVTLDFSYNALSGTLPPSISLP 178
QY 171 NLKALHLENNELTGEIPDIFGNFAG--SPDIYLSHNOTLGVPTFARADPIRLDFSGNRL 229
Db 179 NLGGITFDGNRISGAIPLDSYGSFKLFTAMTISRNLTKGKIPTTFANLNAFVDSLNNML 238
QY 230 EGDISFLFGPKRLEMLDFSGNVLSFNFSRVQEPPELTYLDLNHNQISGSLSELAKLD 289
Db 239 EGDASVLFSGDKNTKKIHLAKNSLAFDLGV--GLSKNLNGLDLRNNRIYGTLPQGLTOLK 297
QY 290 -LOTFNVSNNLCKGKIPTGNNLQRFDRITAYLHNSCLCGAPLPEC 332
Db 298 FLOSINVSFNNLCGEIPQGNLKRFDVSSYANNKCLCGSFLPSC 341

RESULT 4

US-08-592-936B-21
Sequence 21, Application US/08592936B
Patent No. 5783393

GENERAL INFORMATION:

APPLICANT: Kelloog, Jill A.
APPLICANT: Bestwick, Richard K.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
NUMBER OF SEQUENCES: 27
TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592.936B
FILING DATE: 29-JAN-1996
CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 21:

LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-08-592-936B-21

Query Match 35.4%; Score 622; DB 1; Length 342;
Best Local Similarity 41.0%; Pred. No. 3.1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

QY 2 NIESEFCILICIMFLCLPNLSAQRNNNDKQALLOIKTALKNPITTSWSDDDCCG 61
Db 5 NIPVTSSSSIIILVIVLSRTALSELCPQDKQALLOIKKDLNPTLSSWMLPTTDCN 64
QY 62 --WDVCECDTSN--RIISLIIDDEALTGO-----IPQVGDLPYLQALMFRKLPNL 110
Db 65 RTWGLVCLDTDTQYRVNNL-----DLSGHNLKRPPIPSLANPLYNFLVIGGINL 118
QY 111 FGKIPPEISALKDKSLRLSTSLSGVPLFFPQTLTKTCLDLSFNKLLGVIPQSLTP 170
Db 119 VGPIPAIAKLTQHLHYITHVNSGAIIPDLISQIKTLVTLDFSYNALSGTLPPSISLP 178
QY 171 NLKALHLENNELTGEIPDIFGNFAG--SPDIYLSHNOTLGVPTFARADPIRLDFSGNRL 229
Db 179 NLGGITFDGNRISGAIPLDSYGSFKLFTAMTISRNLTKGKIPTTFANLNAFVDSLNNML 238
QY 230 EGDISFLFGPKRLEMLDFSGNVLSFNFSRVQEPPELTYLDLNHNQISGSLSELAKLD 289
Db 239 EGDASVLFSGDKNTKKIHLAKNSLAFDLGV--GLSKNLNGLDLRNNRIYGTLPQGLTOLK 297
QY 290 -LOTFNVSNNLCKGKIPTGNNLQRFDRITAYLHNSCLCGAPLPEC 332
Db 298 FLOSINVSFNNLCGEIPQGNLKRFDVSSYANNKCLCGSFLPSC 341

RESULT 5

US-09-111-573-21
Sequence 21, Application US/09111573
Patent No. 5929302

GENERAL INFORMATION:

APPLICANT: Kelloog, Jill A.
APPLICANT: Bestwick, Richard K.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
NUMBER OF SEQUENCES: 27
TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,573
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/592,936
FILING DATE: 29-JAN-1996
ATTORNEY/AGENT INFORMATION:

NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 21:

LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-09-111-573-21

Query March 35.4%; Score 622; DB 2; Length 342;
Best Local Similarity 41.0%; Pred. No. 3,1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

2 NISSFCPLICIMIFLCPLNLSAQRNNNDKALLQITALKNPITTSWSDCCG 61
5 NIPVTSSSIILVILVLSRLTALSELCPDQKALLQIKDLNPTLSSWLPPTDCCN 64
62 --WDLVCDERSN--RIISLIIDDEALITGO-----IPQVGDLDLYLQALMRKLPNL 110
65 RTWAGVLCDDTDTQYRVNNL-----DLSGHNLKPPYIPSSLANLPYLNFLYIGGINL 118
111 FGKIPPEISALKDKSLRLSTSLSGVPVLPFPQTLTKLCLDLSFNKLGVIPQSLTP 170
119 VGPIPAIAKLTQAHYLYITHTVNSGAIIPDLQIKTLVLDLFSYNALSGTLPSSISLP 178
171 NLKALHLERNELTGEIPDIFGNFAG--SPDIYLSHNOLTGFVPKTFARADPIRLDFSGNRL 229
179 NLGGITFDGNISGAIIPDSYGSFSLFTAMTISRNLTKIPPTFANLNLAFVDSLNNML 238
230 EGDISFLGPKRLEMLDFSGNVLSFNSRVQEPFPSLTLYLDLNHNOISGSLSELAKLD 269
239 EGDASVLFSGDKNTKTHLAKNSLAFDLGV--GLSKNLNGLDLRNNRIYGTLPQGLTQK 237
290 -LQTFNVSDNNLCCGIPITGNGLQRFDRAYLHNSCLCGAPLPEC 332
298 FLOGSLNVSFNNLCCGEIPQGNLKRFDVSSYANNKCLCGSPLPSC 341

RESULT 6
US-08-244-646-17
Sequence 17, Application US/08244646
Patent No. 5744692

GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
APPLICANT: Bergmann, Carl
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sally A. Sullivan
STREET: 5370 Mannheim Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94

TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 227 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-17

Query March 26.5%; Score 464.5; DB 1; Length 227;
Best Local Similarity 43.4%; Pred. No. 2.2e-42;
Matches 98; Conservative 41; Mismatches 84; Indels 3; Gaps 3;

109 NLFGKIPPEISALKDKSLRLSTSLSGVPVLPFPQTLTKLCLDLSFNKLGVIPQSLTP 168
2 NLGPIPAIAKLTQAHYLYITHTVNSGAIIPDLQIKTLVLDLFSYNALSGTLPSSIS 61
169 LKALHLERNELTGEIPDIFGNFAG--SPDIYLSHNOLTGFVPKTFARADPIRLDFSGN 227
62 LPLVGITFDGNISGAIIPDSYGSFSLFTMTISRNLTKIPPTFANLNLAFVDSLNN 121
228 RLEGDISFLGPKRLEMLDFSGNVLSFNSRVQEPFPSLTLYLDLNHNOISGSLSELAK 287
122 MLOGDASVLFSGDKNTQKTHLAKNSLAFDLGV--GLSKNLNGLDLRNNRIYGTLPQGLTQ 180
288 LD-LQTFNVSDNNLCCGIPITGNGLQRFDRAYLHNSCLCGAPLPEC 332
181 LKFLHSLNVSFNNLCCGEIPQGNLQTFHVSAYANNKCLCGSPUPAC 226

RESULT 7
US-09-228-986-72
Sequence 72, Application US/09228986
Patent No. 6359198

GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 72
LENGTH: 910
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-72

Query March 20.0%; Score 352; DB 4; Length 910;
Best Local Similarity 31.2%; Pred. No. 3.3e-29;
Matches 110; Conservative 38; Mismatches 125; Indels 80; Gaps 10;

30 NNNDKALLQITAL--KNPTTDSWSDDDCCGDLVECCETSNRIISLIIDDEALT 86
34 NASDQHALAFKSAITYDPSOSLATSWLPNVSFCOWTIGICRRRORRVISLNV--SSMGLO 92
87 GQIPPOVGDLPYLOALMPFKLPNLFC--KIPEISALKDKSLRLSTSLSGVPVLPFPQ 145
93 GTISPLANLSFLTYLDLN--NSFDCHIYQUGTLFRKMLRLSKNQDQGSIPPTLANC 150
146 TKLCLDLSFNKLGVIPQSLTPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNO 205
151 RSLRNLTSSFNNLTGNIIPQLCLPLNLCMSGINNLTGTIPDCIGNISLGYLSQGN 210
206 LTGFVPKTFAR--ADPIRLDFSGNRLGDISFLGPKRLEMLD----- 247
211 LOGSVPSSELGRISODIIVDLDFGNHLTGCLPSSLSNCTNELDIDNDQLVGHI PSHLCTK 270
248 -----FSGNVLS--FNFSRVQEPFPSLTLYLDLNHNOISGSLSELAKL--- 288


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Db      271 KTTQMLMYLRGANGOLSGVPSLFFNCTKIQE-----IALPYNOLSGIVPELKGKLTIL 323
Qy      289 -----DLQTFNVSDNNLCGKIPFG-GNLOR 312
Db      324 QRLFFCGNYFISGNTWRCPILTALNSCSDLOYVDLSENNFTQQLPFGIGHLSK 376

RESULT 8
US-09-180-439-4
; Sequence 4, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Hatzixanthis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 968
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-4

Query Match      18.4% Score 322.5; DB 4; Length 968;
Best Local Similarity 29.3%; Pred. No. 5.9e-26;
Matches 111; Conservative 45; Mismatches 142; Indels 81; Gaps 12;

Qy      30 NNNDKQALLQIKTALKNP--TITDSWVSDDDC-GMDLVEC----- 67
Db      27 STEATALLMKKATFKKQNNNSFLASWTSSNACKDWGVCLNGRVNTLNTNASVIGTL 86
Qy      68 -----DETNR1-----ISLIID--DEALTGQIPPOVGDPLPQ 100
Db      87 YAFPFSSLPFLENDLDSNNNISGTIPPEIGNLTNLVYLDLNTNOISGTTIPQISLAKLQ 146
Qy      101 ALMFRKLPN-LFGKIPPEISALDKSLRSLSTSLSGVPVLPFPQTLTKLCLDLSFKKL 159
Db      147 II--RIFNHNLNGFIPEIIGYLRSLTKLSGINFLSGSIPASLGMMTNLSFLLYENQLS 204
Qy      160 GVIPPOLSTLPNKLALHLENEELTGEIPDIFGNFAGSPDIYLSHNOULTGVFVPTFARADP 219
Db      205 GFIPPEIGYLRSLTKLSLDINFLSGSIPASLGNNLSFLYLNQOLSGSIPPEIGYLRSL 264
Qy      220 I-RUDFSGNRLGEGDISFLFGPKRLEMLDFSGNVLSFNFSGVOEFPPLSLTYLDLNNHNOIS 278
Db      265 LTKLSLGINFLSGSIPASLGNNLSRLDLVNNKLSGSIPEIIGYLRSLTYLDGENALN 324
Qy      279 GSLSSELAKU-DLQTFNVSDNNLCGKIP-----TGNTLOR 312
Db      325 GSIPSSLGNNLSRLDLVNNKLSGSIPEIIGYLRSLTYLDGENALN 384
Qy      313 FDRTAYLHNSCLCGAPLPE 331
Db      385 L-FMLVLYNNQLSGS-IPE 401

RESULT 9
US-09-180-439-3
; Sequence 3, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:

```

```

; APPLICANT: Dixon, Mark S
; APPLICANT: Hatzixanthis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 3
; LENGTH: 968
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-3

Query Match      18.3% Score 320.5; DB 4; Length 968;
Best Local Similarity 29.3%; Pred. No. 9.7e-26;
Matches 111; Conservative 44; Mismatches 143; Indels 81; Gaps 12;

Qy      30 NNNDKQALLQIKTALKNP--TITDSWVSDDDC-GMDLVEC----- 67
Db      27 STEATALLMKKATFKKQNNNSFLASWTSSNACKDWGVCLNGRVNTLNTNASVIGTL 86
Qy      68 -----DETNR1-----ISLIID--DEALTGQIPPOVGDPLPQ 100
Db      87 YAFPFSSLPFLENDLDSNNNISGTIPPEIGNLTNLVYLDLNTNOISGTTIPQISLAKLQ 146
Qy      101 ALMFRKLPN-LFGKIPPEISALDKSLRSLSTSLSGVPVLPFPQTLTKLCLDLSFKKL 159
Db      147 II--RIFNHNLNGFIPEIIGYLRSLTKLSGINFLSGSIPASLGMMTNLSFLLYENQLS 204
Qy      160 GVIPPOLSTLPNKLALHLENEELTGEIPDIFGNFAGSPDIYLSHNOULTGVFVPTFARADP 219
Db      205 GFIPPEIGYLRSLTKLSLDINFLSGSIPASLGNNLSFLYLNQOLSGSIPPEIGYLRSL 264
Qy      220 I-RUDFSGNRLGEGDISFLFGPKRLEMLDFSGNVLSFNFSGVOEFPPLSLTYLDLNNHNOIS 278
Db      265 LTKLSLGINFLSGSIPASLGNNLSRLDLVNNKLSGSIPEIIGYLRSLTYLDGENALN 324
Qy      279 GSLSSELAKU-DLQTFNVSDNNLCGKIP-----TGNTLOR 312
Db      325 GSIPSSLGNNLSRLDLVNNKLSGSIPEIIGYLRSLTYLDGENALN 384
Qy      313 FDRTAYLHNSCLCGAPLPE 331
Db      385 L-FMLVLYNNQLSGS-IPE 401

RESULT 10
US-09-180-439-8
; Sequence 8, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Hatzixanthis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5

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; EARLIER FILING DATE: 1996-09-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 8
; LENGTH: 1016
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-8

Query Match      18.2%; Score 319.5; DB 4; Length 1016;
Best Local Similarity 29.0%; Pred. No. 1.3e-25;
Matches 110; Conservative 45; Mismatches 143; Indels 81; Gaps 12;

QY      30 NNNKQALLQITALKNP--TTDSWSDDDCC--GWDVECC----- 67
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      27 STEEATALLKWKATPEIKNONNNSFLASMTSSNACKMVGVCINGRVLNTLNATNSAVIGTL 86
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      68 -----DETSNRI-----ISLIOD--DEALTGOIPPOVGDLPYLQ 100
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      87 YAFPSSSLPELENLDSNNNISGTTPEIIGNLTNLVYLDLNTNQISGTTIPQIGSLAKLQ 146
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      101 ALMFRLPN-LFGKIPPEISALKDLSRLSTSLSGVPPIFFPOLTKLCTDLSFNKL 159
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      147 II--RIFFNNHNLNGFIPEIIGYIRSLTKLSLGINFLSGSIPASLGMTMTLSFLFYENQLS 204
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      160 GVIPPQLSTLPULKALHERNELTGEIPDIFGNFAGSPDIYLSHNQLTGVFVPKTFARADP 219
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      205 GFIPPEIGYLSRLTKSLDINFLSGSIPASLGNNLNSFLYLYNNQSGSIPPEIIGYLS 264
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      220 I-RIDFSGNRLEGDISFLGPKKRLKLEMDFGSNVLSFNSRQVEPPSLTYLDLNHNQIS 278
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      265 LTKLSLGINFLSGSIPASLGNNLNSRLDLYNNKLSGSIPEIIGYLSRLTYLDGENALN 324
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      279 GSLSSLEAKLD-----LOTFNVSNNMLCGKXIPITG--GNLQR 312
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      325 GSIPASLGNNLNFMLYLYNNQSGSIPPEIIGYLSRLTYLDGENALNSIPASLGNNL 384
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      313 FDRITAYLHNSCLCGAPLPE 331
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      385 LSRLD-LYNNKLSGS-IPK 401
      : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-08-881-706-2
; Sequence 2, Application US/08881706
; Patent No. 6245969
; GENERAL INFORMATION:
; APPLICANT: Chong, Joane
; APPLICANT: Li, Jianming
; TITLE OF INVENTION: Receptor Kinase BIN1
; FILE REFERENCE: 07251/022001
; CURRENT APPLICATION NUMBER: US/08/881,706
; CURRENT FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 1196
; TYPE: PRT
; ORGANISM: Arabidopsis sp.
US-08-881-706-2

Query Match      18.0%; Score 315.5; DB 4; Length 1196;
Best Local Similarity 28.3%; Pred. No. 4.7e-25;
Matches 112; Conservative 48; Mismatches 143; Indels 93; Gaps 13;

QY      20 LPNLSAS-----QRNNNDKQALLQITALKNP--TTDSWSDDDCCG---DVECCET 70
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      385 LTNLSASLTLTDLSSNNNSGPTL--PNLCQPKNTLQELVYLNQNGFTGKIPPTLSNCS- 441
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      71 SNRIISLIIQDDEALTGOIPPOVGDLPYLQ--ALMFRLPNLFGKIPPEISALKDLSLR 128
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      442 ---LVSLSHSFNL--YLSGTIPSSLSGLSKLRDKLMLNMLE---GRIPQLMNVKLTLETLI 494
      : : : : : : : : : : : : : : : : : : : : : : : :

```

```

QY      129 LSTSLSGVPPLFPFPOITKLTCLDLSFNKLGVIPPOLSTLPULKALHERNELTGEIPD 188
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      495 LDFNDLTGEIPSGLSNCTNLTNMTLSNNRSLTGEIPKIGRLLENLAILKLSNNSFSGNIPD 554
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      189 IFGNFAGSPDIYLSHNQLTGFVPKT--FARADPIRLDP-----SGN 227
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      555 ELDDCRSLIWLDTNLTNLFNTOTIPAAFPKQSGKIAAIPFAGKRVYIKDGMKKECHGAGN 614
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      228 RLE-----GDISFLGPKKRLKLEMDFGSNVLSFNSRVQ 261
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      615 LLEFGIRSEQLNRLSTRNPCTNITSRVYGHSTPTFDNNGSNMFLDMSYNNLSGYIPKEI 674
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      262 EFPPSLTYLDLNHNQISGSLSSSLA-----KUD-----LOTFNVS 296
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      675 GSNPFYELNLEGNDSISIPDEVGLRGILNILDSSNKLDGRIPOAMSALTMLTEIDLS 734
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      297 DNNLCGKIPFGNLOPFDRITAYLHNSCLCGAPLPEC 332
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      735 NNNLSGPIPEMGQETPTPPAKFLNPNOLCGYPLPRC 770
      : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 12
US-09-353-585-2
; Sequence 2, Application US/09353585
; Patent No. 6287865
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses
; thereof
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6287865th Giebe Road
; City: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/353,585
; FILING DATE: 15-Jul-1999
; CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
; 1/68
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/930,277
; FILING DATE: 27-OCT-1997
; APPLICATION NUMBER: PCT/GB96/00785
; FILING DATE: 01-APR-1996
; APPLICATION NUMBER: GB 9506658.5
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1112 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Tomato

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STRAIN: C12
SEQUENCE DESCRIPTION: SEQ ID NO: 2
US-09-353-585-2

Query Match
Best Local Similarity 30.8%; Score 315; DB 4; Length 1112;
Best Local Similarity 30.8%; Pred. No. 4, 8e-25;
Matches 108; Conservative 41; Mismatches 146; Indels 56; Gaps 11;

30 NNNDKQALLQIKTALKNP--TITDSWV--SDDDCCGMDLVEC-----67
27 STEEATALLKWKATPFKQNNNSFLASWIPSSNACKDWYGVCFNGRVNTLNTNASVIGTL 86
68 -----DETSNRI-----ISLIID--DEALTQIIPVGDLPYLQ 100
87 YAFPSLSLENDLSKNNIYGTIPPEIGNLTNLVYLDLNNNQISGRIPIQIGLAKLQ 146

101 ALMFRKLKP-LFGKIPPEISALKDKLSRLSTLSGVPPLFPFQOLTKLTLDLSFNKLL 159
147 II--RIFHQNLGFIPEIGYLSRLTKSLGINFLSGSIPASVGNLNNLSFLYLYNNQLS 204

160 GVIPPOLSTLPNLKALHERNELTGEIPDIFGNFAGSPDIYLSHNOITGFVPKTFARADP 219
205 GSIPPEISYLSRLTELDLSDNALNGSIPASLGNNNNLSFLYGNQLSGSIPEEICYLS 264

220 IR-LDFSGNRLGDISFLFGPKRLEMLDFSGNVLSEFNSRVQEPFSLTYLDLNNQIS 278
265 LTYLDLSENALNGSIPASLGNNLNSFLYGNQLSGSIPEEIGYLSLVNLVGLSENALN 324

279 GSLSSELAKL-DLOTFNVSDNNLCGKIPTG-GNLOQFDRITVLYNSCLCGA 327
325 GSIPASLGNNLNSRLNLVNNQLSGSIASLGNNLNS-MLYLYNNQLSGS 374

RESULT 13
US-09-353-585-3
Sequence 3, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
APPLICANT: Jones, David A
TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q 1/68

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: C12

US-09-353-585-3
SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Query Match
Best Local Similarity 30.8%; Score 315; DB 4; Length 1112;
Best Local Similarity 30.8%; Pred. No. 4, 8e-25;
Matches 108; Conservative 41; Mismatches 146; Indels 56; Gaps 11;

30 NNNDKQALLQIKTALKNP--TITDSWV--SDDDCCGMDLVEC-----67
27 STEEATALLKWKATPFKQNNNSFLASWIPSSNACKDWYGVCFNGRVNTLNTNASVIGTL 86
68 -----DETSNRI-----ISLIID--DEALTQIIPVGDLPYLQ 100
87 YAFPSLSLENDLSKNNIYGTIPPEIGNLTNLVYLDLNNNQISGRIPIQIGLAKLQ 146

101 ALMFRKLKP-LFGKIPPEISALKDKLSRLSTLSGVPPLFPFQOLTKLTLDLSFNKLL 159
147 II--RIFHQNLGFIPEIGYLSRLTKSLGINFLSGSIPASVGNLNNLSFLYLYNNQLS 204

160 GVIPPOLSTLPNLKALHERNELTGEIPDIFGNFAGSPDIYLSHNOITGFVPKTFARADP 219
205 GSIPPEISYLSRLTELDLSDNALNGSIPASLGNNNNLSFLYGNQLSGSIPEEICYLS 264

220 IR-LDFSGNRLGDISFLFGPKRLEMLDFSGNVLSEFNSRVQEPFSLTYLDLNNQIS 278
265 LTYLDLSENALNGSIPASLGNNLNSFLYGNQLSGSIPEEIGYLSLVNLVGLSENALN 324

279 GSLSSELAKL-DLOTFNVSDNNLCGKIPTG-GNLOQFDRITVLYNSCLCGA 327
325 GSIPASLGNNLNSRLNLVNNQLSGSIASLGNNLNS-MLYLYNNQLSGS 374

RESULT 14
US-08-473-553A-5
Sequence 5, Application US/08473553A
Patent No. 5859338
GENERAL INFORMATION:
APPLICANT: Meyerowitz, Elliot M.
APPLICANT: Clark, Steven E.
APPLICANT: Williams, Robert W.
TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
TITLE OF INVENTION: Transformed Plants, and Proteins
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fleht, Hohbach, Test, Albritton & Herbert
STREET: Four Emparadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,553A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:

Query Match	17.1%;	Score 300.5;	DB 4;	Length 799;
Best Local Similarity	29.5%;	Pred. No. 1.1e-23;		
Matches 105; Conservative	47;	Mismatches 147;	Indels 57;	Gaps 12

Search completed: July 16, 2003, 06:59:07
Job time : 62.202 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 6.91162 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-1

Perfect score: 38

Sequence: 1 LPNLFK 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	89.5	615	10 US-09-899-482-3	Sequence 3, Appl1
2	33	86.8	534	10 US-09-312-762A-4	Sequence 4, Appl1
3	33	86.8	534	10 US-09-312-762A-5	Sequence 5, Appl1
4	31	81.6	489	9 US-09-533-029-60	Sequence 60, Appl1
5	31	81.6	559	9 US-09-284-320-21	Sequence 21, Appl1
6	31	81.6	559	9 US-10-205-823-331	Sequence 331, Appl1
7	30	78.9	266	9 US-10-153-668-29	Sequence 29, Appl1
8	30	78.9	452	9 US-10-184-832-5	Sequence 5, Appl1
9	30	78.9	482	12 US-10-042-417-14	Sequence 14, Appl1
10	30	78.9	666	10 US-09-804-551B-16	Sequence 16, Appl1
11	30	78.9	1718	9 US-10-223-070-21	Sequence 21, Appl1
12	29	76.3	39	10 US-09-910-071-2	Sequence 2, Appl1
13	29	76.3	57	10 US-09-864-761-43570	Sequence 43570, A
14	29	76.3	254	9 US-09-880-748-905	Sequence 905, Appl1
15	29	76.3	319	9 US-10-106-698-4861	Sequence 4861, Ap
16	29	76.3	437	10 US-09-815-242-5664	Sequence 5664, Ap
17	29	76.3	520	10 US-09-815-242-12205	Sequence 12205, A
18	29	76.3	616	9 US-10-260-877-120	Sequence 120, Appl1
19	29	76.3	937	10 US-09-949-192-19	Sequence 19, Appl1

20	29	76.3	1565	9 US-10-242-056-59	Sequence 59, Appl1
21	29	76.3	1689	9 US-10-080-943-2	Sequence 2, Appl1
22	28	73.7	32	10 US-09-897-107-99	Sequence 99, Appl1
23	28	73.7	60	9 US-09-813-153-97	Sequence 97, Appl1
24	28	73.7	67	9 US-10-073-961-243	Sequence 243, Appl1
25	28	73.7	67	10 US-09-764-887-243	Sequence 243, Appl1
26	28	73.7	107	10 US-09-893-737-194	Sequence 194, Appl1
27	28	73.7	107	10 US-09-992-753-2	Sequence 2, Appl1
28	28	73.7	212	10 US-09-864-761-46654	Sequence 46654, A
29	28	73.7	248	9 US-09-986-480-316	Sequence 316, Appl1
30	28	73.7	317	10 US-09-312-762A-9	Sequence 9, Appl1
31	28	73.7	331	9 US-10-102-806-473	Sequence 473, Appl1
32	28	73.7	333	9 US-10-156-761-12325	Sequence 12325, A
33	28	73.7	379	9 US-09-966-480-180	Sequence 180, Appl1
34	28	73.7	392	9 US-10-295-220-14	Sequence 14, Appl1
35	28	73.7	466	10 US-09-765-205-28	Sequence 28, Appl1
36	28	73.7	524	9 US-10-156-761-10826	Sequence 10826, A
37	28	73.7	535	10 US-09-312-762A-10	Sequence 10, Appl1
38	28	73.7	552	10 US-09-835-654-2	Sequence 2, Appl1
39	28	73.7	572	10 US-09-815-242-5626	Sequence 5626, Ap
40	28	73.7	573	10 US-09-815-242-12247	Sequence 12247, A
41	28	73.7	573	10 US-09-815-242-12247	Sequence 12247, A
42	28	73.7	579	9 US-10-242-056-51	Sequence 51, Appl1
43	28	73.7	1066	9 US-10-128-714-3190	Sequence 3190, Ap
44	28	73.7	1066	9 US-10-128-714-8190	Sequence 8190, Ap
45	28	73.7	2516	9 US-10-242-056-47	Sequence 47, Appl1

ALIGNMENTS

RESULT 1
US-09-899-482-3
; Sequence 3, Application US/09899482
; Patent No. US20020006641A1
; GENERAL INFORMATION:
; TITLE OF INVENTION: Increasing Production of Proteins in Microorganisms
; FILE REFERENCE: GC385-PCT
; CURRENT APPLICATION NUMBER: US/09/899,482
; CURRENT FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: EP 97305286.3
; PRIOR FILING DATE: 1997-07-16
; PRIOR APPLICATION NUMBER: EP 97305344.0
; PRIOR FILING DATE: 1997-07-17
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ. ID NO 3
; LENGTH: 615
; TYPE: PRT
; ORGANISM: E. coli
US-09-899-482-3

Query Match 89.5%; Score 34; DB 10; Length 615;
Best Local Similarity 85.7%; Pred. NO. 57;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 25 LPNLFK 7
1 LPNLFK 7
|||||
25 LPNLFK 31

RESULT 2
US-09-312-762A-4
; Sequence 4, Application US/09312762A
; Patent No. US20020115069A1
; GENERAL INFORMATION:
; APPLICANT: MIA HOROWITZ ET AL.
; TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
; STREET: 2001 Jefferson Davis Highway, Suite 207

CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
SOFTWARE: Word for Windows version 2.0 converted to
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/312,762A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,898
FILING DATE: 20 FEB 1998
ATTORNEY/AGENT INFORMATION:
NAME: Friedmann, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 916/10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 534
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-312-762A-4

Query Match
Best Local Similarity 86.8%; Score 33; DB 10; Length 534;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFCK 7
Db 318 MPNVFGK 324

RESULT 3
US-09-312-762A-5
Sequence 5, Application US/09312762A
Patent No. US20020115069A1
GENERAL INFORMATION:
APPLICANT: MIA HOROWITZ ET AL.
TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedmann c/o Anthony Castorina
STREET: 2001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: Twinhead* Slimnote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
SOFTWARE: Word for Windows version 3.11
SOFTWARE: an ASCII file
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/312,762A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,898
FILING DATE: 20 FEB 1998
ATTORNEY/AGENT INFORMATION:

NAME: Friedmann, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 916/10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-562553
TELEFAX: 972-3-562554
TELEX:
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 534
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-312-762A-5

Query Match
Best Local Similarity 86.8%; Score 33; DB 10; Length 534;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFCK 7
Db 318 MPNVFGK 324

RESULT 4
US-09-533-029-60
Sequence 60, Application US/09533029
Publication No. US20030046723A1
GENERAL INFORMATION:
APPLICANT: Heard, Jacqueline
APPLICANT: Broun, Pierre
APPLICANT: Riechmann, Jose-Luis
APPLICANT: Keddie, James
APPLICANT: Pineda, Omaira
APPLICANT: Adam, Luc
APPLICANT: Zhang, Raymond
APPLICANT: Yu, Guo-Liang
APPLICANT: Ratcliffe, Oliver
APPLICANT: Pilgrim, Marsha
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Reuber, Lynne
TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
FILE REFERENCE: MBI-010
CURRENT APPLICATION NUMBER: US/09/533,029
CURRENT FILING DATE: 2000-03-22
EARLIER APPLICATION NUMBER: 60/125,814
EARLIER FILING DATE: 1999-03-23
NUMBER OF SEQ ID NOS: 121
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 60
LENGTH: 489
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
OTHER INFORMATION: G1417
US-09-533-029-60

Query Match
Best Local Similarity 81.6%; Score 31; DB 9; Length 489;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFCK 6
Db 407 IPNLFCK 412

RESULT 5
US-09-284-320-21
Sequence 21, Application US/09284320
Publication No. US20030092175A1
GENERAL INFORMATION:
APPLICANT: Kato, Seishi et al.

```

; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs
; FILE REFERENCE: GIN-6705CPUS
; CURRENT APPLICATION NUMBER: US/09/284,320
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: JP 8-301429
; PRIOR FILING DATE: 1996-11-13
; PRIOR APPLICATION NUMBER: PCT/JP97/04056
; PRIOR FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 21
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-284-320-21

Query Match      81.6%; Score 31; DB 9; Length 559;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFG 6
      |||:|
Db      156 LPNMFG 161

RESULT 6
US-10-205-823-331
; Sequence 331, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Monsey, Angela M.
; APPLICANT: Glact, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 331
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-205-823-331

Query Match      81.6%; Score 31; DB 9; Length 559;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFG 6
      |||:|
Db      156 LPNMFG 161
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; TITLE OF INVENTION: STAT6 Activating Gene
; FILE REFERENCE: 1254-0207P
; CURRENT APPLICATION NUMBER: US/10/153,668
; CURRENT FILING DATE: 2002-05-24
; PRIOR APPLICATION NUMBER: US 60/293,172
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/316,031
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: US 60/328,403
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: JP 2001-157043
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: JP 2001-260681
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: JP 2001-313175
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 488
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 29
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-153-668-29

Query Match      78.9%; Score 30; DB 9; Length 266;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFG 6
      |||:|
Db      38 LPNLFG 43

RESULT 8
US-10-184-832-5
; Sequence 5, Application US/10184832
; Publication No. US20030022857A1
; GENERAL INFORMATION:
; APPLICANT: Xu et al.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
; FILE REFERENCE: MP12001-056P1NM
; CURRENT APPLICATION NUMBER: US/10/184,832
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/303,250
; PRIOR FILING DATE: 2001-07-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 452
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-184-832-5

Query Match      78.9%; Score 30; DB 9; Length 452;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LPNLFG 7
      |||:|
Db      308 LPNLFG 314
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```

RESULT 9
US-10-042-417-14
; Sequence 14, Application US/10042417
; Patent No. US20020123082A1
; GENERAL INFORMATION:
; APPLICANT: Pagano, M.
; TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT OF
; TITLE OF INVENTION: PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
; FILE REFERENCE: 5914-090-999
; CURRENT APPLICATION NUMBER: US/10/042,417
; CURRENT FILING DATE: 2002-01-07
; PRIOR APPLICATION NUMBER: 60/260,179
; PRIOR FILING DATE: 2001-01-5
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 482
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-042-417-14

Query Match
Best Local Similarity 78.9%; Score 30; DB 12; Length 482;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFK 6
    |||||
Db 286 LPNVFG 291

RESULT 10
US-09-804-551B-16
; Sequence 16, Application US/09804551B
; Patent No. US20020056151A1
; GENERAL INFORMATION:
; APPLICANT: Bayer Aktiengesellschaft
; TITLE OF INVENTION: Receptors for peptides from insects
; FILE REFERENCE: Le A 34 394
; CURRENT APPLICATION NUMBER: US/09/804,551B
; CURRENT FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: DE 100 13 618.4
; PRIOR FILING DATE: 2000-03-18
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-804-551B-16

Query Match
Best Local Similarity 78.9%; Score 30; DB 10; Length 666;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFK 7
    |||||
Db 80 MPNLFK 86

RESULT 11
US-10-223-070-21
; Sequence 21, Application US/10223070
; Publication No. US20030109045A1
; GENERAL INFORMATION:
; APPLICANT: NELSON, RICHARD S.
; APPLICANT: DING, XIN SHUN
; TITLE OF INVENTION: RNA SILENCING SUPPRESSION
; FILE REFERENCE: NBL0060US
; CURRENT APPLICATION NUMBER: US/10/223,070
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 60/313,185
; PRIOR FILING DATE: 2002-08-17

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; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 1718
; TYPE: PRT
; ORGANISM: Shallic virus X
US-10-223-070-21

Query Match
Best Local Similarity 78.9%; Score 30; DB 9; Length 1718;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFK 7
    |||||
Db 372 LPNLFK 378

RESULT 12
US-09-910-071-2
; Sequence 2, Application US/09910071
; Patent No. US20020116146A1
; GENERAL INFORMATION:
; APPLICANT: Tomikawa, Mayumi
; APPLICANT: Aikawa, Seichi
; APPLICANT: Matsuzawa, Fumiko
; TITLE OF INVENTION: Method and Apparatus for Extracting and Evaluating Mutually Simi
; TITLE OF INVENTION: Portions in One-Dimensional Sequences in Molecules and/or Three
; FILE REFERENCE: 522,1921D2
; CURRENT APPLICATION NUMBER: US/09/910,071
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 08/014,867
; PRIOR FILING DATE: 1993-02-08
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 39
; TYPE: PRT
; ORGANISM: bacterium
US-09-910-071-2

Query Match
Best Local Similarity 76.3%; Score 29; DB 10; Length 39;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 PNLFK 6
    |||||
Db 33 PNLFK 37

RESULT 13
US-09-864-761-43570
; Sequence 43570, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/652,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359

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; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 43570
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002288.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.93
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.9
; OTHER INFORMATION: EST HUMAN HIT: AA071547.1, EVALUE 3.00e-24
; OTHER INFORMATION: SWISSPROT HIT: P00008, EVALUE 7.00e-26
; US-09-860-761-43570

Query Match          76.3%; Score 29; DB 10; Length 57;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 PNLFG 6
Db      27 PNLFG 31

RESULT 14
US-09-860-748-905
; Sequence 905, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antidodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
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; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 905
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-880-748-905
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Query Match          76.3%; Score 29; DB 9; Length 254;
Best Local Similarity 71.4%; Pred. No. 2.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      1 LPNLFGK 7
Db      240 LPNLFGK 246
```

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RESULT 15
US-10-106-698-4861
; Sequence 4861, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005PI
; CURRENT APPLICATION NUMBER: US/10/106,698
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: Patent In Ver. 3.0
; SEQ ID NO 4861
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-106-698-4861
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Query Match          76.3%; Score 29; DB 9; Length 319;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      2 PNLFG 6
Db      64 PNLFG 68
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Search completed: July 16, 2003, 06:57:40
Job time : 6.91162 secs
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RESULT 2
US-09-462-844-3
Sequence 3, Application US/09462844
Patent No. 6238563
GENERAL INFORMATION:
APPLICANT: Quax, Wilhelmus J.
TITLE OF INVENTION: Increasing Production of Proteins in
FILE REFERENCE: GC385-US
CURRENT APPLICATION NUMBER: US/09/462, 844
CURRENT FILING DATE: 2000-01-13
PRIOR APPLICATION NUMBER: PCT/US98/14786
PRIOR FILING DATE: 1998-07-15
PRIOR APPLICATION NUMBER: EP 97305286.3
PRIOR FILING DATE: 1997-07-16
PRIOR APPLICATION NUMBER: EP 97305344.0
PRIOR FILING DATE: 1997-07-17
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO. 3
LENGTH: 615
TYPE: PRT
ORGANISM: Escherichia coli

```

US-09-462-844-3

Query Match 89.5%; Score 34; DB 4; Length 615;
Best Local Similarity 85.7%; Pred. No. 32;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
Db 25 LPNLFGE 31

RESULT 3

US-08-484-101B-38

Sequence 38, Application US/08484101B

Patent No. 5824868

GENERAL INFORMATION:

APPLICANT: California Institute of Technology

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO

TITLE OF INVENTION: ETHYLENE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Richard F. Treccartin

STREET: 3400 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,101B

FILING DATE: 07-JUN-1995

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/

FILING DATE: 01-JUL-1994

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/086,555

FILING DATE: 01-JUL-1993

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Treccartin, Richard F.

REGISTRATION NUMBER: 31,801

REFERENCE/DOCKET NUMBER: A-57515-2/RFT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 615 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-484-101B-38

Query Match 78.9%; Score 30; DB 2; Length 615;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
Db 529 IPNLFSGK 535

RESULT 4

US-08-714-524D-38

Sequence 38, Application US/08714524D

Patent No. 6294716

GENERAL INFORMATION:

APPLICANT: Meyerowitz, Elliott M

APPLICANT: Chang, Caren

APPLICANT: Bleeker, Anthony B

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO ETHYLENE

FILE REFERENCE: a-57515-4

CURRENT APPLICATION NUMBER: US/08/714,524D

CURRENT FILING DATE: 1996-09-16

NUMBER OF SEQ ID NOS: 56

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 38

LENGTH: 615

TYPE: PRT

ORGANISM: Lycopersicon esculentum

US-08-714-524D-38

Query Match 78.9%; Score 30; DB 4; Length 615;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
Db 529 IPNLFSGK 535

RESULT 5

US-08-701-240-2

Sequence 2, Application US/08701240

Patent No. 5912160

GENERAL INFORMATION:

APPLICANT: Wong, Albert J.

APPLICANT: Holgado-Madruga, Maria

TITLE OF INVENTION: GAB1, A GRB2 BINDING PROTEIN, AND

TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5912160ris

STREET: One Liberty Place, 46th floor

CITY: Philadelphia

STATE: Pennsylvania

COUNTRY: USA

ZIP: 19103

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/701,240

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,641

FILING DATE: US 60/002,641

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DeLuca, Mark

REGISTRATION NUMBER: 33,229

REFERENCE/DOCKET NUMBER: TJU-2032

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 694 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-701-240-2

Query Match 76.3%; Score 29; DB 2; Length 694;
Best Local Similarity 100.0%; Pred. No. 4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
Db 529 IPNLFSGK 535

OY 2 PNLFG 6
 Db 601 PNLFG 605

RESULT 6

US-09-138-236-2
 ; Sequence 2, Application US/09138236
 ; Patent No. 6133428
 ; GENERAL INFORMATION:
 ; APPLICANT: Wong, Albert J.
 ; APPLICANT: Holgado-Madruga, Maria
 ; TITLE OF INVENTION: GAB1 A GRB2 BINDING PROTEIN, AND
 ; TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6133428-2
 ; STREET: One Liberty Place, 46th floor
 ; CITY: Philadelphia
 ; STATE: Pennsylvania
 ; COUNTRY: USA
 ; ZIP: 19103
 ; COMPUTER READABLE FORM:
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 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/138,236
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/701,240
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Deluca, Mark
 ; REGISTRATION NUMBER: 33,229
 ; REFERENCE/DOCKET NUMBER: TUD-2032
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 215-568-1100
 ; TELEFAX: 215-568-3439
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 694 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-09-138-236-2

Query Match 76.3%; Score 29; DB 4; Length 694;
 Best Local Similarity 100.0%; Pred. No. 4e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 PNLFG 6
 Db 601 PNLFG 605

RESULT 7

US-09-196-520-10
 ; Sequence 10, Application US/09196520
 ; Patent No. 6204039
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Carl S.
 ; APPLICANT: Allen, Stephen M.
 ; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
 ; FILE REFERENCE: BB-1291
 ; CURRENT APPLICATION NUMBER: US/09/196,520
 ; CURRENT FILING DATE: 1998-11-19
 ; EARLIER APPLICATION NUMBER: 60/067,388
 ; EARLIER FILING DATE: December 2, 1997
 ; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 10
 ; LENGTH: 357
 ; TYPE: PRT
 ; ORGANISM: Solanum tuberosum
 ; US-09-196-520-10

Query Match 73.7%; Score 28; DB 4; Length 357;
 Best Local Similarity 66.7%; Pred. No. 3.1e+02;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFG 6
 Db 256 MPNLFG 261

RESULT 8

US-09-196-520-6
 ; Sequence 6, Application US/09196520
 ; Patent No. 6204039
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Carl S.
 ; APPLICANT: Allen, Stephen M.
 ; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
 ; FILE REFERENCE: BB-1291
 ; CURRENT APPLICATION NUMBER: US/09/196,520
 ; CURRENT FILING DATE: 1998-11-19
 ; EARLIER APPLICATION NUMBER: 60/067,388
 ; EARLIER FILING DATE: December 2, 1997
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 6
 ; LENGTH: 361
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (68)
 ; US-09-196-520-6

Query Match 73.7%; Score 28; DB 4; Length 361;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFG 6
 Db 250 MPNLFG 255

RESULT 9

US-09-196-520-4
 ; Sequence 4, Application US/09196520
 ; Patent No. 6204039
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Carl S.
 ; APPLICANT: Allen, Stephen M.
 ; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
 ; FILE REFERENCE: BB-1291
 ; CURRENT APPLICATION NUMBER: US/09/196,520
 ; CURRENT FILING DATE: 1998-11-19
 ; EARLIER APPLICATION NUMBER: 60/067,388
 ; EARLIER FILING DATE: December 2, 1997
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 4
 ; LENGTH: 362
 ; TYPE: PRT
 ; ORGANISM: Oryza sativa
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (58)
 ; US-09-196-520-4

Query Match 73.7%; Score 28; DB 4; Length 362;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LBNLFG 6
DB 251 MPNLYG 256

RESULT 10

US-09-196-520-8
; Sequence 8, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Trilicium sp.
US-09-196-520-8

Query Match 73.7%; Score 28; DB 4; Length 362;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LBNLFG 6
DB 251 MPNLYG 256

RESULT 11

US-09-196-520-9
; Sequence 9, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-09-196-520-9

Query Match 73.7%; Score 28; DB 4; Length 364;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LBNLFG 6
DB 253 MPNLYG 258

RESULT 12

US-09-196-520-2
; Sequence 2, Application US/09196520
; Patent No. 6204039

; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Zea mays
US-09-196-520-2

Query Match 73.7%; Score 28; DB 4; Length 365;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LBNLFG 6
DB 254 MPNLYG 259

RESULT 13

US-08-984-171-4
; Sequence 4, Application US/08984171
; Patent No. 5952177
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: HUMAN CYTOSOLIC ISOCITRATE
; TITLE OF INVENTION: DEHYDROGENASE
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,171
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0434 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 706839

US-08-984-171-4

Query Match 73.7%; Score 28; DB 2; Length 366;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFG 6
 : |||: |
 Db 251 MPNLVG 256

RESULT 14

US-09-323-872A-46
 ; Sequence 46, Application US/09323872A
 ; Patent No. 6395539
 ; GENERAL INFORMATION:
 ; APPLICANT: Coschigano, Peter
 ; TITLE OF INVENTION: Compositions and Methods for Bioremediation
 ; FILE REFERENCE: OHU-03640
 ; CURRENT APPLICATION NUMBER: US/09/323, 872A
 ; CURRENT FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: 09/072, 433
 ; PRIOR FILING DATE: 1998-05-04
 ; NUMBER OF SEQ ID NOS: 58
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 46
 ; LENGTH: 581
 ; TYPE: PRT
 ; ORGANISM: Thauera aromatica
 US-09-323-872A-46

Query Match 73.7%; Score 28; DB 4; Length 581;
 Best Local Similarity 71.4%; Pred. No. 5.3e+02;

Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 LPNLFGK 7
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 Db 561 LPKLFGE 567

RESULT 15

US-09-347-878-5
 ; Sequence 5, Application US/09347878C
 ; Patent No. 6376210
 ; GENERAL INFORMATION:
 ; APPLICANT: Yuan, Chong
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
 ; FILE REFERENCE: 25885-1651
 ; CURRENT APPLICATION NUMBER: US/09/347, 878C
 ; CURRENT FILING DATE: 1999-07-06
 ; NUMBER OF SEQ ID NOS: 75
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 5
 ; LENGTH: 1265
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-347-878-5

Query Match 73.7%; Score 28; DB 4; Length 1265;
 Best Local Similarity 83.3%; Pred. No. 1.2e+03;
 Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFG 6
 : |||: |
 Db 290 LPNTRG 295

Search completed: July 16, 2003, 06:59:02
 Job time : 3.2904 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 8.88636 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-2
Perfect score: 42
Sequence: 1 IPEISALK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

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- 13: /cgn2_6/ptodata/2/pubppaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubppaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	81.0	164	9 US-09-866-050A-385	Sequence 385, App
2	33	78.6	198	9 US-09-738-626-5310	Sequence 5310, App
3	33	78.6	351	9 US-10-101-464A-660	Sequence 660, App
4	33	78.6	463	10 US-09-815-242-13918	Sequence 13918, A
5	33	78.6	920	10 US-09-925-301-1396	Sequence 1396, App
6	32	76.2	156	9 US-10-101-464A-509	Sequence 509, App
7	32	76.2	1095	9 US-10-128-714-8305	Sequence 8305, App
8	31	73.8	147	9 US-10-153-668-364	Sequence 364, App
9	31	73.8	298	10 US-09-925-301-1224	Sequence 1224, App
10	31	73.8	541	9 US-10-234-432-37	Sequence 37, App1
11	31	73.8	601	9 US-09-934-455-434	Sequence 434, App1
12	31	73.8	653	10 US-09-759-010-2	Sequence 260, App1
13	31	73.8	654	9 US-09-919-039-260	Sequence 260, App1
14	31	73.8	654	10 US-09-919-039-260	Sequence 260, App1
15	31	73.8	655	9 US-10-117-641-36	Sequence 36, App1
16	31	73.8	655	9 US-10-235-113-36	Sequence 36, App1
17	31	73.8	662	9 US-10-234-432-75	Sequence 75, App1
18	31	73.8	678	9 US-10-234-432-38	Sequence 38, App1
19	31	73.8	680	9 US-10-153-668-244	Sequence 244, App

20	31	73.8	707	9 US-10-101-464A-80	Sequence 80, App1
21	31	73.8	720	10 US-09-919-497-83	Sequence 83, App1
22	31	73.8	744	10 US-09-815-242-13390	Sequence 13390, A
23	31	73.8	943	9 US-09-738-626-5199	Sequence 5199, App
24	31	73.8	1111	9 US-09-738-626-5581	Sequence 5581, App
25	31	73.8	1523	9 US-10-174-590-290	Sequence 290, App
26	31	73.8	1523	9 US-10-176-758-290	Sequence 290, App
27	31	73.8	1523	9 US-10-175-737-290	Sequence 290, App
28	31	73.8	1523	9 US-10-173-706-290	Sequence 290, App
29	31	73.8	1523	9 US-10-175-738-290	Sequence 290, App
30	31	73.8	1523	9 US-10-175-752-290	Sequence 290, App
31	31	73.8	1523	9 US-10-176-482-290	Sequence 290, App
32	31	73.8	1523	9 US-10-176-757-290	Sequence 290, App
33	31	73.8	1523	9 US-10-176-913-290	Sequence 290, App
34	31	73.8	1523	9 US-10-180-552-290	Sequence 290, App
35	31	73.8	1523	9 US-10-180-557-290	Sequence 290, App
36	31	73.8	1523	9 US-10-173-700-290	Sequence 290, App
37	31	73.8	1523	9 US-10-174-572-290	Sequence 290, App
38	31	73.8	1523	9 US-10-174-579-290	Sequence 290, App
39	31	73.8	1523	9 US-10-174-582-290	Sequence 290, App
40	31	73.8	1523	9 US-10-174-588-290	Sequence 290, App
41	31	73.8	1523	9 US-10-175-739-290	Sequence 290, App
42	31	73.8	1523	9 US-10-175-740-290	Sequence 290, App
43	31	73.8	1523	9 US-10-175-743-290	Sequence 290, App
44	31	73.8	1523	9 US-10-176-488-290	Sequence 290, App
45	31	73.8	1523	9 US-10-176-492-290	Sequence 290, App

ALIGNMENTS

RESULT 1
US-09-866-050A-385
; Sequence 385, Application US/09866050A
; Publication No. US2003040471A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Muriel, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011CAU
; CURRENT APPLICATION NUMBER: US/09/866,050A
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 725
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 385
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Mouse
US-09-866-050A-385
Query Match 81.0%; Score 34; DB 9; Length 164;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPEISALK 9
DB 142 LPEISALK 150
US-09-738-626-5310
; Sequence 5310, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIKOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOHO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 5310
LENGTH: 198
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738-626-5310

Query Match
Best Local Similarity 78.6%; Score 33; DB 9; Length 198;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEISALK 9
112 LPDEVSAKR 120

RESULT 3
US-10-101-464A-660
Sequence 660, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000.10202
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 660
LENGTH: 381
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-660

Query Match
Best Local Similarity 78.6%; Score 33; DB 9; Length 381;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IPEISALK 9
15 IPEFSQK 23

RESULT 4
US-09-815-242-13918

Sequence 13918, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13918
LENGTH: 463
TYPE: PRT
ORGANISM: Salmonella typhi
US-09-815-242-13918

Query Match
Best Local Similarity 78.6%; Score 33; DB 10; Length 463;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 PEISALK 9
395 PEEVAKK 402

RESULT 5
US-09-925-301-1396
Sequence 1396, Application US/09925301
Patent No. US20020052308A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05862
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1396
LENGTH: 920
TYPE: PRT
ORGANISM: Homo sapiens
US-09-925-301-1396

Query Match
Best Local Similarity 78.6%; Score 33; DB 10; Length 920;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;


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OY      1 IPEEISAL 8
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Db      170 LPEELSL 177

RESULT 6
US-10-101-464A-509
; Sequence 509, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FASTSEQ for windows Version 4.0
; SEQ ID NO 509
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-509

Query Match      76.2% Score 32; DB 9; Length 156;
Best Local Similarity 66.7%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY      1 IPEEISAL 9
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Db      73 IPEELSLCK 81

RESULT 7
US-10-128-714-8305
; Sequence 8305, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: 09/60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8305
; LENGTH: 1095
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      : TYPE: PRT
      : ORGANISM: Aspergillus fumigatus
      : FEATURE:
      : NAME/KEY: MISC FEATURE
      : LOCATION: (1095) ..(1095)
      : OTHER INFORMATION: X= any amino acid
US-10-128-714-8305

Query Match      76.2% Score 32; DB 9; Length 1095;
Best Local Similarity 55.6%; Pred. No. 6.9e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      1 IPEEISAL 9
      :|||||
Db      891 VPEEVSEVK 899

RESULT 8
US-10-153-668-364
; Sequence 364, Application US/10153668
; Publication No. US20030092616A1
; GENERAL INFORMATION:
; APPLICANT: HONDA, Goichi
; APPLICANT: MATSUMA, Akio
; APPLICANT: MURAMATSU, Shuji
; APPLICANT: ISHIZAWA, Kenya
; TITLE OF INVENTION: STATE Activating Gene
; FILE REFERENCE: 1254-0207P
; CURRENT APPLICATION NUMBER: US/10/153,668
; PRIOR FILING DATE: 2002-05-24
; PRIOR APPLICATION NUMBER: US 60/293,172
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/316,031
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: US 60/328,403
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: JP 2001-157043
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: JP 2001-260681
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: JP 2001-313175
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 488
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 364
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-153-668-364

Query Match      73.8% Score 31; DB 9; Length 147;
Best Local Similarity 75.0%; Pred. No. 1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY      2 PEEISAL 9
      :|||||
Db      135 PEEELSLK 142

RESULT 9
US-09-925-301-1224
; Sequence 1224, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
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NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1224
LENGTH: 298
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (279)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1224

Query Match 73.8%; Score 31; DB 10; Length 298;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 PEISALK 9
DB 62 IPEYISCLK 70

RESULT 10
US-10-234-432-37
Sequence 37, Application US/10234432
Publication No. US20030091598A1
GENERAL INFORMATION:

APPLICANT: Homer, Mary J.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND
FILE REFERENCE: 210121.560
CURRENT APPLICATION NUMBER: US/10/234.432
CURRENT FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 108
SOFTWARE: Corixa Invention Disclosure Database
SEQ ID NO 37
LENGTH: 541
TYPE: PRT
ORGANISM: Babesia sp. WAI
US-10-234-432-37

Query Match 73.8%; Score 31; DB 9; Length 541;
Best Local Similarity 85.7%; Pred. No. 4.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 PEISALK 8
DB 36 PEISAM 42

RESULT 11
US-09-934-455-434
Sequence 434, Application US/09934455
Publication No. US20030121070A1
GENERAL INFORMATION:

APPLICANT: Adam, Luc
APPLICANT: Creelman, Robert
APPLICANT: Dubell, Arnold
APPLICANT: Heard, Jacqueline
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Keddie, James
APPLICANT: Pilgrim, Marsha
APPLICANT: Ratcliffe, Oliver
APPLICANT: Reuber, Lynne
APPLICANT: Riechmann, Jose Luis
APPLICANT: Yu, Guo-Liang
APPLICANT: Pineda, Omaira
TITLE OF INVENTION: Genes for Modifying Plant Traits IV
FILE REFERENCE: MBI-0025
CURRENT APPLICATION NUMBER: US/09/934.455

CURRENT FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/227439
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: MBI-0022
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: MBI-0023
PRIOR FILING DATE: 2001-04-17
NUMBER OF SEQ ID NOS: 516
SOFTWARE: PatentIn version 3.1
SEQ ID NO 434
LENGTH: 601
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-934-455-434

Query Match 73.8%; Score 31; DB 9; Length 601;
Best Local Similarity 75.0%; Pred. No. 5.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 PEISALK 9
DB 43 PPEVSALK 50

RESULT 12
US-09-759-010-2
Sequence 2, Application US/09759010
Patent No. US20010034042A1
GENERAL INFORMATION:
APPLICANT: Srivastava, Pramod K.
TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
FILE REFERENCE: 8449-135
CURRENT APPLICATION NUMBER: US/09/759.010
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 653
TYPE: PRT
ORGANISM: Homo sapiens
US-09-759-010-2

Query Match 73.8%; Score 31; DB 10; Length 653;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 PEISALK 8
DB 142 PEISAM 148

RESULT 13
US-09-919-039-260
Sequence 260, Application US/09919039
Publication No. US20030108871A1
GENERAL INFORMATION:

APPLICANT: Kaser, Matthew R.
TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
FILE REFERENCE: PA-0035 US
CURRENT APPLICATION NUMBER: US/09/919.039
CURRENT FILING DATE: 2002-09-09
PRIOR APPLICATION NUMBER: 60/222.113
PRIOR FILING DATE: 2000-07-28
NUMBER OF SEQ ID NOS: 401
SOFTWARE: PERL Program
SEQ ID NO 260
LENGTH: 654
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1

US-09-919-039-260

Query Match 73.8%; Score 31; DB 9; Length 654;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 142 PEEISAM 148

Search completed: July 16, 2003, 06:57:41
Job time : 9.88636 secs

RESULT 14

US-09-919-172-54
; Sequence 54, Application US/09919172
; Patent No. US20020119463A1
; GENERAL INFORMATION:
; APPLICANT: Paris, Mary
; APPLICANT: Turner, Christopher M.
; TITLE OF INVENTION: PROSTATE CANCER MARKERS
; FILE REFERENCE: PA-0036 US
; CURRENT APPLICATION NUMBER: US/09/919,172
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/222,469
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PERL Program
; SEQ ID NO 54
; LENGTH: 654
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54

Query Match 73.8%; Score 31; DB 10; Length 654;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 142 PEEISAM 148

RESULT 15

US-10-117-641-36
; Sequence 36, Application US/10117641
; Publication No. US20020194640A1
; GENERAL INFORMATION:
; APPLICANT: Misra, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
; FILE REFERENCE: 62586
; CURRENT APPLICATION NUMBER: US/10/117,641
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Pseudotsuga menziesii
US-10-117-641-36

Query Match 73.8%; Score 31; DB 9; Length 655;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 139 PEEISAM 145

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 1.65909 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-2

Perfect score: 42

Sequence: 1 IPEISALK 9

Scoring table: BLASTSUM62

Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	100.0	9	3	US-08-898-351-2
2	33	78.6	600	6	5240706-1
3	33	78.6	1112	4	US-09-353-585-2
4	33	78.6	1112	4	US-09-353-585-3
5	32	76.2	233	3	US-08-836-236-8
6	31	73.8	46	6	5196523-8
7	31	73.8	654	1	US-08-441-139-11
8	31	73.8	655	4	US-09-632-538C-36
9	31	73.8	663	1	US-08-441-139-7
10	31	73.8	666	1	US-08-441-139-16
11	31	73.8	707	4	US-09-228-986-80
12	31	73.8	1523	4	US-09-182-024A-2
13	30	71.4	62	4	US-09-006-428A-12
14	30	71.4	239	4	US-09-306-881-4
15	30	71.4	240	1	US-08-261-822A-71
16	30	71.4	240	5	PCT-US95-07744A-71
17	30	71.4	334	1	US-08-347-826A-2
18	30	71.4	335	1	US-08-347-826A-1
19	30	71.4	572	3	US-09-040-681A-4
20	30	71.4	572	3	US-09-497-897-4
21	30	71.4	907	3	US-08-938-830-26
22	29	69.0	154	4	US-09-020-222-26
23	29	69.0	166	1	US-09-228-966-89
24	29	69.0	166	1	US-08-213-448-1
25	29	69.0	166	2	US-08-477-310A-1
26	29	69.0	166	3	US-08-912-768-1
27	29	69.0	166	4	US-09-331-260-2

28	29	69.0	166	4	US-09-397-992A-7	Sequence 7, Appli
29	29	69.0	166	4	US-09-487-792-21	Sequence 21, Appli
30	29	69.0	166	5	PCT-US95-03206-1	Sequence 1, Appli
31	29	69.0	166	6	5514567-4	Sequence 35, Appli
32	29	69.0	169	4	US-08-928-941D-35	Sequence 45, Appli
33	29	69.0	169	4	US-09-280-590A-45	Sequence 22, Appli
34	29	69.0	187	1	US-08-026-758-22	Sequence 3, Appli
35	29	69.0	187	3	US-08-912-768-3	Sequence 9, Appli
36	29	69.0	187	4	US-09-206-903A-9	Sequence 30, Appli
37	29	69.0	187	4	US-08-406-030A-30	Sequence 9, Appli
38	29	69.0	187	4	US-09-202-122-9	Sequence 7, Appli
39	29	69.0	187	4	US-09-206-935-7	Sequence 4, Appli
40	29	69.0	187	4	US-09-206-936-7	Sequence 9, Appli
41	29	69.0	187	4	US-09-487-792-4	Sequence 7, Appli
42	29	69.0	187	6	5326859-1	Sequence 4, Appli
43	29	69.0	187	6	5514567-1	Sequence 9, Appli
44	29	69.0	258	4	US-09-134-001C-3244	Sequence 3244, Ap
45	29	69.0	303	3	US-09-002-298-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-898-351-2
Sequence 2, Application US/08898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898, 351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 9
TYPE: PRT
ORGANISM: CARROT ROOT
US-08-898-351-2

Query Match 100.0%; Score 42; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEISALK 9
DB 1 IPEISALK 9

RESULT 2
5240706-1
Patent No. 5240706
APPLICANT: FAULDS, DARYL
TITLE OF INVENTION: INTRANSSAL ADMINISTRATION OF MYCOPLASMA
HYPOHEMOMYX ANTIGEN
NUMBER OF SEQUENCES: 22
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/334,586
FILING DATE: 07-APR-1989
SEQ ID NO. 1:
LENGTH: 600
5240706-1

Query Match 78.6%; Score 33; DB 6; Length 600;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEISALK 7
DB 87 IPEISALK 93

RESULT 3
US-09-353-585-2
Sequence 2, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
Jones, David A.
Jones, Jonathan DG
TITLE OF INVENTION: Plant pathogen resistance genes and uses
thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
1/68
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: Cf2
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-353-585-2
Query Match 78.6%; Score 33; DB 4; Length 1112;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 IPEISALK 9
Db 207 IPEISYLR 215
RESULT 4
US-09-353-585-3
Sequence 3, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
Jones, David A
Jones, Jonathan DG

TITLE OF INVENTION: Plant pathogen resistance genes and uses
thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
1/68
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: Cf2
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-353-585-3
Query Match 78.6%; Score 33; DB 4; Length 1112;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 IPEISALK 9
Db 207 IPEISYLR 215
RESULT 5
US-08-836-236-8
Sequence 8, Application US/08836236
Patent No. 6103484
GENERAL INFORMATION:
APPLICANT: CARLOW, CLOTTIDE K.S.
PERLER, FRANCES B.
APPLICANT: HONG, XIQIANG
APPLICANT: MEJIA, JHON S.
TITLE OF INVENTION: NOVEL PROTEIN FROM DIROFILARIA IMMITIS
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESSES:
ADDRESSEE: NEW ENGLAND BIOABS, INC.
STREET: 32 TOZER ROAD
CITY: BEVERLY

STATE: MASSACHUSETTS
COUNTRY: US
ZIP: 01915
COMPUTER READABLE FORM:
MEDIUM TYPE: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,236
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/420,976
FILING DATE: 10-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: WILLIAMS, GREGORY D.
REGISTRATION NUMBER: 30901
REFERENCE/DOCKET NUMBER: NEB-112C-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 927-5054
TELEFAX: (508) 927-1705
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 233 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-836-236-8

Query Match 76.2%; Score 32; DB 3; Length 233;
Best Local Similarity 66.7%; Pred. No. 89;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 IPEEISALK 9
|||
Db 153 IPEEVEKELK 161

RESULT 6
5196523-8
Patent No. 5196523
APPLICANT: LEE, AMY S.
TITLE OF INVENTION: CONTROL OF GENE EXPRESSION BY GLUCOSE,
CALCIUM AND TEMPERATURE
NUMBER OF SEQUENCES: 28
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/354,988
FILING DATE: 19-MAY-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 282,880
FILING DATE: 05-DEC-1988
APPLICATION NUMBER: 690,951
FILING DATE: 01-JAN-1985
SEQ ID NO: 8:
LENGTH: 46
5196523-8

Query Match 73.8%; Score 31; DB 6; Length 46;
Best Local Similarity 85.7%; Pred. No. 25;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8
|||
Db 24 PEEISAM 30

RESULT 7
US-08-441-139-11
Sequence 11, Application US/08441139
Patent No. 5773245
GENERAL INFORMATION:

APPLICANT: Wiltup, Dr. Karl D.
APPLICANT: Robinson, Anne S.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 654 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-11

Query Match 73.8%; Score 31; DB 1; Length 654;
Best Local Similarity 85.7%; Pred. No. 4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8
|||
Db 142 PEEISAM 148

RESULT 8
US-09-632-538C-36
Sequence 36, Application US/09632538C
Patent No. 6440674
GENERAL INFORMATION:
APPLICANT: Misra, Santosh et al.
TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
FILE REFERENCE: 54359
CURRENT APPLICATION NUMBER: US/09/632,538C
CURRENT FILING DATE: 2000-08-04
NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 36
LENGTH: 655
TYPE: PRT
ORGANISM: Pseudotsuga menziesii
US-09-632-538C-36

Query Match 73.8%; Score 31; DB 4; Length 655;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 139 PEISAM 145

RESULT 9

US-08-441-139-7
Sequence 7, Application US/08441139
Patent No. 577245
GENERAL INFORMATION:
APPLICANT: Wiltup, Dr. Karl D.
APPLICANT: Robinson, Anne S.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Digilio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 663 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-7

Query Match 73.8%; Score 31; DB 1; Length 663;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 147 PEISAM 153

RESULT 10
US-08-441-139-16

Sequence 16, Application US/08441139
Patent No. 577245
GENERAL INFORMATION:

APPLICANT: Wiltup, Dr. Karl D.

APPLICANT: Robinson, Anne S.

TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:

ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER

STREET: 400 Garden City Plaza
CITY: Garden City

STATE: NY
COUNTRY: USA
ZIP: 11530

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441.139

FILING DATE: 15-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/089,997

FILING DATE: 06-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Digilio, Frank S.

REGISTRATION NUMBER: 31,346

REFERENCE/DOCKET NUMBER: 8646

TELECOMMUNICATION INFORMATION:

TELEPHONE: 516-742-4343

TELEFAX: 516-742-4366

TELEX: 230 901 SANS UR

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 666 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-441-139-16

Query Match 73.8%; Score 31; DB 1; Length 666;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 154 PEISAM 160

RESULT 11

US-09-228-986-80

Sequence 80, Application US/09228986

Patent No. 6359198

GENERAL INFORMATION:

APPLICANT: Strabala, Timothy

APPLICANT: Neuenhuizen, Niels

TITLE OF INVENTION: Compositions Isolated from Plant Cells

FILE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling

FILE REFERENCE: 11000/1020

CURRENT APPLICATION NUMBER: US/09/228,986

NUMBER OF SEQ ID NOS: 130

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 80

LENGTH: 707

TYPE: PRT

ORGANISM: Pinus radiata

US-09-228-986-80

Query Match 73.8%; Score 31; DB 4; Length 707;
Best Local Similarity 62.5%; Pred. No. 4.4e+02;

Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 9
Db 29 PDVSAUK 36

RESULT 12

US-09-182-024A-2

Sequence 2, Application US/09182024A

Patent No. 6342370
GENERAL INFORMATION:
APPLICANT: Connolly, Timothy
APPLICANT: Rajput, Bhanu
TITLE OF INVENTION: Human Silt Polypeptide and Polynucleotides Encoding
FILE REFERENCE: 640100-271
CURRENT APPLICATION NUMBER: US/09/182,024A
PRIOR FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/063,946
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/096,420
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 2
LENGTH: 1523
TYPE: PRF
ORGANISM: Homo sapiens
US-09-182-024A-2

Query Match
Best Local Similarity 73.8%; Score 31; DB 4; Length 1523;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 IPEISALK 9
Db 767 VPELSALK 775

RESULT 13
US-09-006-428A-12
Sequence 12, Application US/09006428A
Patent No. 644439
GENERAL INFORMATION:
APPLICANT: Jing Li
APPLICANT: Kazuhisa Nishizawa
APPLICANT: Mengdan An
APPLICANT: Ellis L. Reinherz
TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF A
FILE REFERENCE: 1062.1020-000
CURRENT APPLICATION NUMBER: US/09/006,428A
CURRENT FILING DATE: 1998-01-13
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 12
LENGTH: 62
TYPE: PRF
ORGANISM: Homo sapiens
US-09-006-428A-12

Query Match
Best Local Similarity 71.4%; Score 30; DB 4; Length 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 IPEISALK 9
Db 16 IPEISALK 24

RESULT 14
US-09-306-881-4
Sequence 4, Application US/09306881A
Patent No. 6133008
GENERAL INFORMATION:
APPLICANT: Hsieh, Pei-chung
APPLICANT: XU, Shuang-yong
TITLE OF INVENTION: METHOD FOR CLONING AND PRODUCING THE TFII RESTRICTION
FILE REFERENCE: NEB-159
CURRENT APPLICATION NUMBER: US/09/306,881A
CURRENT FILING DATE: 1999-05-07

NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 4
LENGTH: 239
TYPE: PRF
ORGANISM: Thermus filiformis
US-09-306-881-4

Query Match
Best Local Similarity 71.4%; Score 30; DB 4; Length 239;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 IPEISALK 9
Db 140 IPEISALK 148

RESULT 15
US-08-261-822A-71
Sequence 71, Application US/08261822A
Patent No. 5650553
GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R. et al.
TITLE OF INVENTION: Plant Genes for Sensitivity to Ethylene
NUMBER OF SEQUENCES: 82
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5650553ris
STREET: One Liberty Place, 46th floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/261,822A
FILING DATE: 17-JUN-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Beardell, Lori Y.
REGISTRATION NUMBER: 34,293
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
TELEFAX: (215) 568-3439
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 240 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-261-822A-71

Query Match
Best Local Similarity 71.4%; Score 30; DB 1; Length 240;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 IPEISALK 9
Db 41 IPEISALK 48

Search completed: July 16, 2003, 06:59:03
Job time: 2.65909 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 9.87374 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-3

Perfect score: 45

Sequence: 1 LTXDLSPFK 10

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PTCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	97.8	345	US-10-128-714-3396	Sequence 3396, Ap
2	44	97.8	356	US-10-128-714-8396	Sequence 8396, Ap
3	40	88.9	947	US-10-101-464A-73	Sequence 73, Appl
4	38	84.4	180	US-09-895-298-73	Sequence 73, Appl
5	38	84.4	194	US-10-101-464A-668	Sequence 68, App
6	38	84.4	677	US-10-101-464A-891	Sequence 891, App
7	38	84.4	968	US-10-101-464A-76	Sequence 76, Appl
8	38	84.4	1399	US-09-388-221-4	Sequence 4, Appl
9	38	84.4	1424	US-09-388-221-12	Sequence 12, Appl
10	38	84.4	1429	US-10-028-392-11	Sequence 11, Appl
11	38	84.4	1429	US-09-996-617-2	Sequence 2, Appl
12	38	84.4	1429	US-09-931-071-2	Sequence 2, Appl
13	38	84.4	1443	US-09-388-221-6	Sequence 6, Appl
14	38	84.4	1454	US-09-388-221-10	Sequence 10, Appl
15	38	84.4	1473	US-09-388-221-2	Sequence 2, Appl
16	37	82.2	109	US-10-101-464A-685	Sequence 685, App
17	37	82.2	290	US-10-068-426-10	Sequence 10, Appl
18	37	82.2	290	US-10-068-426-11	Sequence 11, Appl
19	37	82.2	290	US-10-068-426-12	Sequence 12, Appl

20	37	82.2	301	US-10-068-426-9	Sequence 9, Appl
21	37	82.2	302	US-10-068-426-7	Sequence 7, Appl
22	37	82.2	302	US-10-068-426-8	Sequence 8, Appl
23	37	82.2	531	US-10-068-426-4	Sequence 4, Appl
24	37	82.2	531	US-10-068-426-5	Sequence 5, Appl
25	37	82.2	544	US-10-068-426-6	Sequence 6, Appl
26	37	82.2	544	US-10-068-426-1	Sequence 1, Appl
27	37	82.2	544	US-10-068-426-2	Sequence 2, Appl
28	37	82.2	544	US-10-068-426-3	Sequence 3, Appl
29	37	82.2	697	US-10-101-464A-940	Sequence 940, App
30	37	82.2	1166	US-10-101-464A-900	Sequence 900, App
31	36	80.0	655	US-10-101-464A-702	Sequence 702, Appl
32	35	77.8	132	US-10-101-464A-572	Sequence 572, App
33	35	77.8	338	US-10-171-311-119	Sequence 119, App
34	35	77.8	353	US-10-106-698-4655	Sequence 4655, App
35	35	77.8	353	US-09-925-301-980	Sequence 980, App
36	35	77.8	493	US-10-004-415-4	Sequence 4, Appl
37	35	77.8	707	US-10-101-464A-80	Sequence 80, Appl
38	35	77.8	904	US-09-950-041-6	Sequence 6, Appl
39	35	77.8	998	US-10-101-464A-914	Sequence 914, App
40	35	77.8	1504	US-09-932-145-7	Sequence 7, Appl
41	34	75.6	183	US-10-101-464A-757	Sequence 757, App
42	34	75.6	333	US-10-101-464A-561	Sequence 561, App
43	34	75.6	590	US-10-227-884-70	Sequence 70, Appl
44	34	75.6	590	US-10-230-163-70	Sequence 70, Appl
45	34	75.6	590	US-10-218-631-70	Sequence 70, Appl

ALIGNMENTS

RESULT 1
US-10-128-714-3396
Sequence 3396, Application US/10128714
Publication No. US20030119013A1
GENERAL INFORMATION:
APPLICANT: Huang, Bo
APPLICANT: Tishkoff, Daniel
APPLICANT: Zamudio, Carlos
APPLICANT: Eroshtkin, Alexey M
APPLICANT: Lemieux, Sebastien M
TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
FILE REFERENCE: 10182-018-999
CURRENT APPLICATION NUMBER: US/10/128,714
PRIOR APPLICATION NUMBER: US 60/285,697
PRIOR FILING DATE: 2001-04-23
PRIOR APPLICATION NUMBER: US 60/287,066
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/295,890
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/303,899
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/316,362
PRIOR FILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 8603
SOFTWARE: Patent version 3.1
SEQ ID NO 3396
LENGTH: 345
TYPE: PRT
ORGANISM: Aspergillus fumigatus
US-10-128-714-3396
Query Match 97.8%; Score 44; DB 9; Length 345;
Best Local Similarity 90.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
DB 113 LTXDLSPFK 122

```
RESULT 2
US-10-128-714-8396
; Sequence 8396, Application US/10128714
; Publication No. US20030119013A1
GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 8396
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8396

Query Match          97.8%; Score 44; DB 9; Length 356;
Best Local Similarity 90.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFNK 10
        |||||||
        124 LTXLDLSFNK 133

RESULT 3
US-10-101-464A-73
; Sequence 73, Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 73
; LENGTH: 947
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-73
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Query Match          88.9%; Score 40; DB 9; Length 947;
Best Local Similarity 80.0%; Pred. No. 4.8;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFNK 10
        |||||||
        211 LTXLDLSFNK 220

RESULT 4
US-09-895-298-73
; Sequence 73, Application US/09895298
; Publication No. US20030078405A1
GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 47 Human Secreted Proteins
; FILE REFERENCE: P2035P1
; CURRENT APPLICATION NUMBER: US/09/895,298
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 09/591,16
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: PCT/US99/29950
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/113,006
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/112,809
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 73
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-895-298-73

Query Match          84.4%; Score 38; DB 9; Length 180;
Best Local Similarity 88.9%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFN 9
        |||||||
        85 LTXLDLSFN 93

RESULT 5
US-10-101-464A-668
; Sequence 668, Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 668
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-668
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Query Match 84.4%; Score 38; DB 9; Length 194;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
185 LTRLDLSFN 193

RESULT 6
US-10-101-464A-891

; Sequence 891, Application US/10101464A
; Publication No. US20030046728A1

; GENERAL INFORMATION:

; APPLICANT: Strabala, Timothy

; APPLICANT: Nieuwenhuizen, Nicolaas

; APPLICANT: Higgins, Colleen M.

; TITLE OF INVENTION: Compositions Isolated from Plant Cells

; FILE REFERENCE: 11000.1020C2

; CURRENT APPLICATION NUMBER: US/10/101,464A

; PRIOR FILING DATE: 2002-03-18

; PRIOR APPLICATION NUMBER: 09/704,302

; PRIOR FILING DATE: 2000-11-01

; PRIOR APPLICATION NUMBER: 09/228,986

; PRIOR FILING DATE: 1999-01-12

; PRIOR APPLICATION NUMBER: 60/162,866

; PRIOR FILING DATE: 1999-11-01

; PRIOR APPLICATION NUMBER: PCT/US00/00724

; PRIOR FILING DATE: 2000-01-11

; NUMBER OF SEQ ID NOS: 989

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 891

; LENGTH: 677

; TYPE: PRT

; ORGANISM: Pinus radiata

US-10-101-464A-891

Query Match 84.4%; Score 38; DB 9; Length 677;
Best Local Similarity 88.9%; Pred. No. 8.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
185 LTRLDLSFN 193

RESULT 7

US-10-101-464A-76

; Sequence 76, Application US/10101464A

; Publication No. US20030046728A1

; GENERAL INFORMATION:

; APPLICANT: Strabala, Timothy

; APPLICANT: Nieuwenhuizen, Nicolaas

; APPLICANT: Higgins, Colleen M.

; TITLE OF INVENTION: Compositions Isolated from Plant Cells

; FILE REFERENCE: 11000.1020C2

; CURRENT APPLICATION NUMBER: US/10/101,464A

; PRIOR FILING DATE: 2002-03-18

; PRIOR APPLICATION NUMBER: 09/704,302

; PRIOR FILING DATE: 2000-11-01

; PRIOR APPLICATION NUMBER: 09/228,986

; PRIOR FILING DATE: 1999-01-12

; PRIOR APPLICATION NUMBER: 60/162,866

; PRIOR FILING DATE: 1999-11-01

; PRIOR APPLICATION NUMBER: PCT/US00/00724

; PRIOR FILING DATE: 2000-01-11

; NUMBER OF SEQ ID NOS: 989

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 76

; LENGTH: 968

; TYPE: PRT

; ORGANISM: Eucalyptus grandis
US-10-101-464A-76

Query Match 84.4%; Score 38; DB 9; Length 968;
Best Local Similarity 80.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 10
|||
Db 96 LTRLDLSFN 105

RESULT 8
US-09-388-221-4

; Sequence 4, Application US/09388221A

; Publication No. US20020192643A1

; GENERAL INFORMATION:

; APPLICANT: Reed, John C.

; TITLE OF INVENTION: No. US20020192643A1el Card Proteins Involved in Cell Death Regul.

; FILE REFERENCE: P-LJ 3650

; CURRENT APPLICATION NUMBER: US/09/388,221A

; PRIOR FILING DATE: 1999-09-01

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4

; LENGTH: 1399

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-388-221-4

Query Match 84.4%; Score 38; DB 9; Length 1399;
Best Local Similarity 88.9%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 867 LTRLDLSFN 875

RESULT 9
US-09-388-221-12

; Sequence 12, Application US/09388221A

; Publication No. US20020192643A1

; GENERAL INFORMATION:

; APPLICANT: Reed, John C.

; TITLE OF INVENTION: No. US20020192643A1el Card Proteins Involved in Cell Death Regul.

; FILE REFERENCE: P-LJ 3650

; CURRENT APPLICATION NUMBER: US/09/388,221A

; PRIOR FILING DATE: 1999-09-01

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 12

; LENGTH: 1424

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-09-388-221-12

Query Match 84.4%; Score 38; DB 9; Length 1424;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 867 LTRLDLSFN 875

RESULT 10
US-10-028-392-11

; Sequence 11, Application US/10028392

; Publication No. US20030087340A1

; GENERAL INFORMATION:

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; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: A NOVEL HUMAN LECTINE-RICH REPEAT CONTAINING PROTEIN EXPRESSED
; FILE REFERENCE: D0085.np
; CURRENT APPLICATION NUMBER: US/10/028,392
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/259,479
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: US 60/260,616
; PRIOR FILING DATE: 2001-01-09
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: homo sapiens
; US-10-028-392-11

Query Match
Best Local Similarity 84.4%; Score 38; DB 9; Length 1429;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFN 9
Db 867 LTELDSLSEFN 875

RESULT 11
US-09-996-617-2
; Sequence 2, Application US/09996617
; Patent No. US20020128198A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 07334-340001
; CURRENT APPLICATION NUMBER: US/09/996,617
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 09/931,071
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 09/428,252
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 09/340,620
; PRIOR FILING DATE: 1999-06-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-996-617-2

Query Match
Best Local Similarity 84.4%; Score 38; DB 10; Length 1429;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFN 9
Db 867 LTELDSLSEFN 875

RESULT 12
US-09-931-071-2
; Sequence 2, Application US/09931071
; Patent No. US20020128219A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; APPLICANT: Alnemri, Emad S.
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 07334-335001
; CURRENT APPLICATION NUMBER: US/09/931,071
; CURRENT FILING DATE: 2002-03-18

; PRIOR APPLICATION NUMBER: 09/428,252
; PRIOR FILING DATE: 1999-10-27
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-931-071-2

Query Match
Best Local Similarity 84.4%; Score 38; DB 10; Length 1429;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFN 9
Db 867 LTELDSLSEFN 875

RESULT 13
US-09-388-221-6
; Sequence 6, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: NO. US20020192643A1el Card Proteins Involved in Cell Death Regu;
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1443
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-388-221-6

Query Match
Best Local Similarity 84.4%; Score 38; DB 9; Length 1443;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFN 9
Db 867 LTELDSLSEFN 875

RESULT 14
US-09-388-221-10
; Sequence 10, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: NO. US20020192643A1el Card Proteins Involved in Cell Death Regu;
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1454
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; US-09-388-221-10

Query Match
Best Local Similarity 84.4%; Score 38; DB 9; Length 1454;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFN 9
Db 867 LTELDSLSEFN 875
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RESULT 15
US-09-388-221-2
; Sequence 2, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: No. US20020192643A1 Card Proteins Involved in Cell Death Regul
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1473
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-221-2

Query Match      84.4% Score 38; DB 9; Length 1473;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFN 9
      |||||
Db      867 LTELDSLFSN 875
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Search completed: July 16, 2003, 06:57:41
Job time : 9.87374 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:01 ; Search time 24.5707 Seconds
(without alignment)

262.359 Million cell updates/sec

Title: US-09-308-140-3

Perfect score: 45

Sequence: 1 LTXLDSFNK 10

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Maximum Match 100%

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13: /cgn2_6/ptodata/1/paa/US089_COMB.pep.*
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27: /cgn2_6/ptodata/1/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	44	97.8	123	18	US-09-417-507-28742		Sequence 28742, A
2	44	97.8	295	27	US-60-360-039-3696		Sequence 3696, Ap
3	44	97.8	338	21	US-09-791-537-6552		Sequence 6552, Ap
4	44	97.8	345	1	PCT-US02-13142-3396		Sequence 3396, Ap
5	44	97.8	345	25	US-10-128-714-3396		Sequence 3396, Ap
6	44	97.8	345	27	US-60-316-362-3396		Sequence 3396, Ap

7	44	97.8	356	1	PCT-US02-13142-8396		Sequence 8396, Ap
8	44	97.8	356	25	US-10-128-714-8396		Sequence 8396, Ap
9	44	95.6	10	17	US-09-308-140-3		Sequence 3, Appl
10	42	93.3	197	17	US-09-308-140-12		Sequence 12, Appl
11	42	93.3	332	17	US-09-308-140-7		Sequence 7, Appl
12	42	93.3	332	21	US-09-791-537-427		Sequence 427, App
13	41	91.1	857	21	US-09-791-537-59074		Sequence 59074, A
14	40	88.9	79	27	US-60-140-802-7		Sequence 101, App
15	40	88.9	107	27	US-60-142-787-101		Sequence 101, App
16	40	88.9	107	27	US-60-143-873-215		Sequence 215, App
17	40	88.9	305	16	US-09-248-796-18996		Sequence 46, Appl
18	40	88.9	305	16	US-09-248-796-18996		Sequence 18996, A
19	40	88.9	305	17	US-09-248-796-18996		Sequence 18996, A
20	40	88.9	374	1	PCT-US02-03987-15529		Sequence 15529, A
21	40	88.9	374	24	US-10-032-585-7585		Sequence 7585, Ap
22	40	88.9	374	24	US-10-072-851-15529		Sequence 15529, A
23	40	88.9	374	27	US-60-259-128-4892		Sequence 4892, Ap
24	40	88.9	374	27	US-60-314-050-7585		Sequence 7585, Ap
25	40	88.9	364	25	US-10-179-131-7829		Sequence 7829, Ap
26	40	88.9	600	20	US-09-614-150-37419		Sequence 37419, A
27	40	88.9	600	27	US-60-191-637-37033		Sequence 37033, A
28	40	88.9	886	1	PCT-US99-22855-677		Sequence 677, App
29	40	88.9	886	18	US-09-451-320-513		Sequence 513, App
30	40	88.9	947	1	PCT-US00-00724-73		Sequence 73, Appl
31	40	88.9	947	21	US-09-704-3024-73		Sequence 73, Appl
32	40	88.9	947	25	US-10-101-4644-73		Sequence 73, Appl
33	40	88.9	947	27	US-60-162-866-73		Sequence 73, Appl
34	40	88.9	957	21	US-09-791-537-13736		Sequence 13736, A
35	39	86.7	324	19	US-09-791-537-106949		Sequence 106949, A
36	39	86.7	325	21	US-09-513-966A-26412		Sequence 26412, A
37	39	86.7	325	20	US-09-620-394B-3808		Sequence 3908, Ap
38	39	86.7	325	23	US-09-935-625-14165		Sequence 14165, A
39	39	86.7	325	23	US-09-935-625-14165		Sequence 14165, A
40	39	86.7	329	21	US-09-791-537-66558		Sequence 66558, A
41	39	86.7	346	23	US-09-935-625-14164		Sequence 14164, A
42	39	86.7	430	26	US-10-219-999-43183		Sequence 43183, A
43	39	86.7	430	27	US-60-312-544-6902		Sequence 6902, Ap
44	39	86.7	732	1	PCT-US99-22855B-1959		Sequence 1959, Ap
45	39	86.7	751	1	PCT-US99-22855B-1958		Sequence 1958, Ap

ALIGNMENTS

RESULT 1
US-09-417-507-28742 Application US/09417507
Sequence 28742, A
GENERAL INFORMATION:
APPLICANT: KEITH G. WEINSTOCK ET AL.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ASPERGILLUS
FILE REFERENCE: PATH99-10
CURRENT APPLICATION NUMBER: US/09/417,507
CURRENT FILING DATE: 1999-10-14
NUMBER OF SEQ ID NOS: 44312
SEQ ID NO 28742
LENGTH: 123
TYPE: PRT
ORGANISM: A. fumigatus
US-09-417-507-28742

Query Match 97.8%; Score 44; DB 18; Length 123;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDSFNK 10
DB 44 LTXLDSFNK 53
RESULT 2
US-60-360-039-3696
Sequence 3696, Appl

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; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Chen, Xianfeng
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52053)A
; CURRENT APPLICATION NUMBER: US/60/360,039
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3696
; LENGTH: 295
; TYPE: PRF
; ORGANISM: Neurospora crassa
US-60-360-039-3696

Query Match          97.8%; Score 44; DB 27; Length 295;
Best Local Similarity 90.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 LTXLDLSFNK 10
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Db      80 LTSLDLSFNK 89

RESULT 3
US-09-791-537-6552
; Sequence 6552, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Biomedix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6552
; LENGTH: 338
; TYPE: PRF
; ORGANISM: Saccharomyces cerevisiae
US-09-791-537-6552

Query Match          97.8%; Score 44; DB 21; Length 338;
Best Local Similarity 90.0%; Pred. No. 3.1;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 LTXLDLSFNK 10
        |||||||
Db     115 LTSLDLSFNK 124

RESULT 4
PCT-US02-13142-3396
; Sequence 3396, Application PC/TUS0213142
; GENERAL INFORMATION:
; APPLICANT: Elitra Pharmaceuticals, Inc.
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-228
; CURRENT APPLICATION NUMBER: PCT/US02/13142
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899

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; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3396
; LENGTH: 345
; TYPE: PRF
; ORGANISM: Aspergillus fumigatus
PCT-US02-13142-3396

Query Match          97.8%; Score 44; DB 1; Length 345;
Best Local Similarity 90.0%; Pred. No. 3.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 LTXLDLSFNK 10
        |||||||
Db     113 LTSLDLSFNK 122

RESULT 5
US-10-128-714-3396
; Sequence 3396, Application US/10128714
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Weng
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshtkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3396
; LENGTH: 345
; TYPE: PRF
; ORGANISM: Aspergillus fumigatus
US-10-128-714-3396

Query Match          97.8%; Score 44; DB 25; Length 345;
Best Local Similarity 90.0%; Pred. No. 3.2;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 LTXLDLSFNK 10
        |||||||
Db     113 LTSLDLSFNK 122

RESULT 6
US-60-316-362-3396
; Sequence 3396, Application US/60316362
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshtkin, Alexey M.
; TITLE OF INVENTION: Identification of Essential Genes of Aspergillus fumigatus and Mei
; FILE REFERENCE: 10182-012-888

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;; CURRENT APPLICATION NUMBER: US/60/316,362
;; CURRENT FILING DATE: 2001-08-31
;; NUMBER OF SEQ ID NOS: 4037
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 3396
;; LENGTH: 345
;; TYPE: PRT
;; ORGANISM: Aspergillus fumigatus
US-60-316-362-3396

Query Match 97.8%; Score 44; DB 27; Length 345;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 113 LTXLDLSPNK 122

RESULT 7
PCT-US02-13142-8396

;; Sequence 8396, Application PC/TUS0213142
;; GENERAL INFORMATION:
;; APPLICANT: Elittra Pharmaceuticals, Inc.
;; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
;; FILE REFERENCE: 10182-018-228
;; CURRENT APPLICATION NUMBER: PCT/US02/13142
;; PRIOR FILING DATE: 2002-04-23
;; PRIOR APPLICATION NUMBER: US 60/285,697
;; PRIOR FILING DATE: 2001-04-23
;; PRIOR APPLICATION NUMBER: US 60/287,066
;; PRIOR FILING DATE: 2001-04-27
;; PRIOR APPLICATION NUMBER: US 60/295,890
;; PRIOR FILING DATE: 2001-06-05
;; PRIOR APPLICATION NUMBER: US 60/303,899
;; PRIOR FILING DATE: 2001-07-09
;; PRIOR APPLICATION NUMBER: US 60/316,362
;; PRIOR FILING DATE: 2001-08-31
;; NUMBER OF SEQ ID NOS: 8603
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 8396
;; LENGTH: 356
;; TYPE: PRT
;; ORGANISM: Aspergillus fumigatus
PCT-US02-13142-8396

Query Match 97.8%; Score 44; DB 1; Length 356;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 124 LTXLDLSPNK 133

RESULT 8
US-10-128-714-8396

;; Sequence 8396, Application US/10128714
;; GENERAL INFORMATION:
;; APPLICANT: Uiang, Bo
;; APPLICANT: Hu, Wengqi
;; APPLICANT: Tishkoff, Daniel
;; APPLICANT: Zamudio, Carlos
;; APPLICANT: Eroszhkin, Alexey M
;; APPLICANT: Lemieux, Sebastien M
;; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
;; FILE REFERENCE: 10182-018-999
;; CURRENT APPLICATION NUMBER: US/10/128,714
;; CURRENT FILING DATE: 2002-04-23
;; PRIOR APPLICATION NUMBER: US 60/285,697
;; PRIOR FILING DATE: 2001-04-23

;; PRIOR APPLICATION NUMBER: US 60/287,066
;; PRIOR FILING DATE: 2001-04-27
;; PRIOR APPLICATION NUMBER: US 60/295,890
;; PRIOR FILING DATE: 2001-06-05
;; PRIOR APPLICATION NUMBER: US 60/303,899
;; PRIOR FILING DATE: 2001-07-09
;; PRIOR APPLICATION NUMBER: US 60/316,362
;; PRIOR FILING DATE: 2001-08-31
;; NUMBER OF SEQ ID NOS: 8603
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 8396
;; LENGTH: 356
;; TYPE: PRT
;; ORGANISM: Aspergillus fumigatus
US-10-128-714-8396

Query Match 97.8%; Score 44; DB 25; Length 356;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 124 LTXLDLSPNK 133

RESULT 9
US-09-308-140-3

;; Sequence 3, Application US/09308140
;; GENERAL INFORMATION:
;; APPLICANT: BYASS, LOUISE J.
;; APPLICANT: DOUCET, CHARLOTTE J.
;; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
;; FILE REFERENCE: F7371(C)
;; CURRENT APPLICATION NUMBER: US/09/308,140
;; PRIOR FILING DATE: 1999-12-30
;; PRIOR APPLICATION NUMBER: PCT/EP97/06181
;; PRIOR FILING DATE: 1997-11-06
;; PRIOR APPLICATION NUMBER: EP 96308362.1
;; PRIOR FILING DATE: 1996-11-19
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 3
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Daucus carota
;; FEATURE:
;; NAME/KEY: MOD_RES
;; LOCATION: (3)
;; OTHER INFORMATION: any, other or unknown amino acid
US-09-308-140-3

Query Match 95.6%; Score 43; DB 17; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 1 LTXLDLSPNK 10

RESULT 10
US-09-308-140-12

;; Sequence 12, Application US/09308140
;; GENERAL INFORMATION:
;; APPLICANT: BYASS, LOUISE J.
;; APPLICANT: DOUCET, CHARLOTTE J.
;; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
;; FILE REFERENCE: F7371(C)
;; CURRENT APPLICATION NUMBER: US/09/308,140
;; PRIOR FILING DATE: 1999-12-30
;; PRIOR APPLICATION NUMBER: PCT/EP97/06181
;; PRIOR FILING DATE: 1997-11-06
;; PRIOR APPLICATION NUMBER: EP 96308362.1


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; PRIOR FILING DATE: 1996-11-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 12
; LENGTH: 197
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-308-140-12

Query Match
Best Local Similarity 93.3%; Score 42; DB 17; Length 197;
Best Local Similarity 90.0%; Pred. No. 4.5;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFNK 10
DB 13 LTCLDLSEFNK 22

RESULT 11
US-09-308-140-7
; Sequence 7, Application US/09308140
; GENERAL INFORMATION:
; APPLICANT: BYASS, LOUISE J.
; APPLICANT: DOUCET, CHARLOTTE J.
; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
; FILE REFERENCE: F7371(C)
; CURRENT APPLICATION NUMBER: US/09/308,140
; PRIOR FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: PCT/EP97/06181
; PRIOR FILING DATE: 1997-11-06
; PRIOR APPLICATION NUMBER: EP 96308362.1
; PRIOR FILING DATE: 1996-11-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-308-140-7

Query Match
Best Local Similarity 93.3%; Score 42; DB 17; Length 332;
Best Local Similarity 90.0%; Pred. No. 7.9;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFNK 10
DB 148 LTCLDLSEFNK 157

RESULT 12
US-09-791-537-427
; Sequence 427, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 427
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-791-537-427

Query Match
Best Local Similarity 93.3%; Score 42; DB 21; Length 332;
Best Local Similarity 90.0%; Pred. No. 7.9;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 1 LTXDLSEFNK 10
DB 148 LTCLDLSEFNK 157

RESULT 13
US-09-791-537-59074
; Sequence 59074, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 59074
; LENGTH: 857
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-791-537-59074

Query Match
Best Local Similarity 91.1%; Score 41; DB 21; Length 857;
Best Local Similarity 80.0%; Pred. No. 35;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFNK 10
DB 293 LTDLSEFNK 302

RESULT 14
US-60-140-802-74
; Sequence 74, Application US/60140802
; GENERAL INFORMATION:
; APPLICANT: Kerlavage, Anthony
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: C1000039
; CURRENT APPLICATION NUMBER: US/60/140,802
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Drosophila
US-60-140-802-74

Query Match
Best Local Similarity 88.9%; Score 40; DB 27; Length 79;
Best Local Similarity 80.0%; Pred. No. 4.4;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSEFNK 10
DB 24 LTFLDLSEFNK 33

RESULT 15
US-60-142-787-101
; Sequence 101, Application US/60142787
; GENERAL INFORMATION:
; APPLICANT: Kerlavage, Anthony
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: C1000050
; CURRENT APPLICATION NUMBER: US/60/142,787
; CURRENT FILING DATE: 1999-07-08
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NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 101
LENGTH: 107
TYPE: PRT
ORGANISM: Drosophila
US-60-142-787-101

Query Match 88.9%; Score 40; DB 27; Length 107;
Best Local Similarity 80.0%; Pred. No. 6.1;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSFNK 10
Db 70 LTFDLSTYK 79

Search completed: July 16, 2003, 07:29:24
Job time : 26.5707 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 1.84343 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-3

Perfect score: 45

Sequence: 1 LTXDLSFNK 10

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patente AA.*
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2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
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6: /cgn2_6/ptodata/1/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	95.6	10	3	US-08-898-351-3
2	40	88.9	947	4	US-09-228-986-73
3	39	86.7	523	2	US-08-473-553A-3
4	39	86.7	980	2	US-08-473-553A-6
5	39	86.7	985	2	US-08-473-553A-2
6	38	84.4	330	1	US-08-238-163-2
7	38	84.4	968	4	US-09-228-986-76
8	37	82.2	34	3	US-08-658-136-35
9	37	82.2	320	1	US-07-613-083B-1
10	37	82.2	610	1	US-07-821-717B-6
11	37	82.2	610	1	US-08-119-262B-6
12	37	82.2	610	1	US-08-135-929A-11
13	37	82.2	610	1	US-08-234-265A-11
14	36	80.0	220	1	US-07-991-867B-11
15	36	80.0	220	1	US-08-107-755A-11
16	36	80.0	220	4	US-09-544-33-11
17	36	80.0	220	4	US-09-370-861A-11
18	36	80.0	655	4	US-09-228-986-70
19	35	77.8	707	4	US-09-228-986-80
20	34	75.6	301	4	US-09-353-585-5
21	34	75.6	644	4	US-08-866-757-2
22	34	75.6	644	4	US-09-153-593-2
23	34	75.6	799	4	US-09-180-439-6
24	34	75.6	910	4	US-09-228-986-72
25	34	75.6	968	4	US-09-180-439-3
26	34	75.6	968	4	US-09-180-439-4
27	34	75.6	1016	4	US-09-180-439-8

ALIGNMENTS

28	34	75.6	1112	4	US-09-353-585-2	Sequence 2, Appli
29	34	75.6	1112	4	US-09-353-585-3	Sequence 3, Appli
30	33	73.3	313	3	US-08-985-315-8	Sequence 8, Appli
31	33	73.3	313	4	US-09-410-372-8	Sequence 8, Appli
32	33	73.3	366	3	US-08-746-883-6	Sequence 6, Appli
33	33	73.3	440	3	US-08-985-335-3	Sequence 3, Appli
34	33	73.3	440	4	US-09-410-372-3	Sequence 3, Appli
35	33	73.3	735	3	US-09-191-647-9	Sequence 9, Appli
36	33	73.3	735	4	US-09-540-245A-9	Sequence 9, Appli
37	33	73.3	735	4	US-09-540-153-9	Sequence 9, Appli
38	33	73.3	1012	2	US-08-475-891A-4	Sequence 4, Appli
39	33	73.3	1023	2	US-08-475-891A-2	Sequence 2, Appli
40	33	73.3	1023	2	US-08-567-375-2	Sequence 2, Appli
41	33	73.3	1023	2	US-08-567-375-4	Sequence 2, Appli
42	33	73.3	1025	2	US-08-567-375-4	Sequence 4, Appli
43	33	73.3	1025	2	US-08-567-680A-4	Sequence 4, Appli
44	33	73.3	1196	4	US-08-881-706-2	Sequence 2, Appli
45	32	71.1	154	4	US-09-228-986-99	Sequence 99, Appli

RESULT 1
US-08-898-351-3
Sequence 3, Application US/0898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898,351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 10
TYPE: PRT
ORGANISM: CARROT ROOT
FEATURE:
NAME/KEY: UNSURE
LOCATION: (3)
OTHER INFORMATION: Xaa represents any amino acid in plant protein
US-08-898-351-3
Query Match 95.6%; Score 43; DB 3; Length 10;
Best Local Similarity 100.0%; Pred.No. 0.0042;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LTXDLSFNK 10
DB 1 LTXDLSFNK 10
RESULT 2
US-09-228-986-73
Sequence 73, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 73
LENGTH: 947
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-73

Query Match 88.9%; Score 40; DB 4; Length 947;
Best Local Similarity 80.0%; Pred. No. 2.3;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLDSFN 10
|||
DB 211 LTYDLDSFN 220

RESULT 3
US-08-473-553A-3
Sequence 3, Application US/08473553A
Patent No. 5859338
GENERAL INFORMATION:
APPLICANT: Meyerowitz, Elliot M.
APPLICANT: Clark, Steven E.
APPLICANT: Williams, Robert W.
TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
TITLE OF INVENTION: Transformed Plants, and Proteins
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohnbach, Test, Albrighton & Herbert
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,553A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Silva, Robin M.
REGISTRATION NUMBER: 38,304
REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 523 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-473-553A-3

Query Match 86.7%; Score 39; DB 2; Length 523;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLDSFN 9
|||
DB 509 LTYDLDSFN 517

RESULT 4
US-08-473-553A-6
Sequence 6, Application US/08473553A
Patent No. 5859338
GENERAL INFORMATION:
APPLICANT: Meyerowitz, Elliot M.
APPLICANT: Clark, Steven E.
APPLICANT: Williams, Robert W.
TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
TITLE OF INVENTION: Transformed Plants, and Proteins

NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohnbach, Test, Albrighton & Herbert
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,553A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Silva, Robin M.
REGISTRATION NUMBER: 38,304
REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 980 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-473-553A-6

Query Match 86.7%; Score 39; DB 2; Length 980;
Best Local Similarity 88.9%; Pred. No. 3.8;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLDSFN 9
|||
DB 578 LTYDLDSFN 586

RESULT 5
US-08-473-553A-2
Sequence 2, Application US/08473553A
Patent No. 5859338
GENERAL INFORMATION:
APPLICANT: Meyerowitz, Elliot M.
APPLICANT: Clark, Steven E.
APPLICANT: Williams, Robert W.
TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
TITLE OF INVENTION: Transformed Plants, and Proteins
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohnbach, Test, Albrighton & Herbert
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,553A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Silva, Robin M.
REGISTRATION NUMBER: 38,304

REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 985 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-473-553A-2

Query Match 86.7%; Score 39; DB 2; Length 985;
Best Local Similarity 88.9%; Pred. No. 3.8;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFN 9
|||
Db 583 LTXLDLSFN 591

RESULT 6

US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOLTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
TITLE OF INVENTION: POLYGLYCOLYTRONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307F-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2

Query Match 84.4%; Score 38; DB 1; Length 330;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFN 9
|||
Db 145 LTXLDLSFN 153

RESULT 7
US-09-228-986-76
Sequence 76, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions isolated from plant cells
TITLE OF INVENTION: and their use in the modification of plant cell signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 76
LENGTH: 968
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-09-228-986-76

Query Match 84.4%; Score 38; DB 4; Length 968;
Best Local Similarity 80.0%; Pred. No. 6;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
|||
Db 96 LTXLDLSFNK 105

RESULT 8

US-08-658-136-35
Sequence 35, Application US/08658136
Patent No. 6071717
GENERAL INFORMATION:
APPLICANT: KLINGER, KATHERINE W
APPLICANT: LANDES, GREGORY M
APPLICANT: BURN, TIMOTHY C
APPLICANT: CONNORS, TIMOTHY D
APPLICANT: DACKOWSKI, WILLIAM
APPLICANT: GERMINO, GREGORY
APPLICANT: QIAN, FENG
TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENZYME CORPORATION
STREET: ONE MOUNTAIN ROAD
CITY: FRAMINGHAM
STATE: MASSACHUSETTS
COUNTRY: US
ZIP: 01701

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/658,136
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: LASSEN, ELIZABETH
REGISTRATION NUMBER: 31,845
REFERENCE/DOCKET NUMBER: GEN4-17.8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 508-872-8400
TELEFAX: 508-872-5415
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

Query Match 84.4%; Score 38; DB 1; Length 330;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFN 9
|||
Db 145 LTXLDLSFN 153

US-08-658-136-35

Query Match
Best Local Similarity 82.2%; Score 37; DB 3; Length 34;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
|||:||||:
DB 7 LTVLDVSNR 16

RESULT 9

US-07-613-083B-1
Sequence 1, Application US/07613083B
Patent No. 5340727

GENERAL INFORMATION:

APPLICANT: Ruggeri, Zaverio M.
APPLICANT: Ware, Jerry, Inventors
APPLICANT: on behalf of Scripps Clinic and Research
APPLICANT: Foundation
TITLE OF INVENTION: Gp1b' Fragments and Recombinant
TITLE OF INVENTION: DNA Expression Vectors
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESS: Scripps Clinic and Research
ADDRESSEE: Foundation
STREET: 10666 No. 5340727th Torrey Pines Road
CITY: La Jolla
STATE: California
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette-5.25 inch, 1.2 MB
COMPUTER: AST Bravo IBM PC comp. (386SX)
OPERATING SYSTEM: MS DOS version 3.2
SOFTWARE: WordPerfect 5.1 conv. to ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/613,083B
FILING DATE: 19911114
CLASSIFICATION: 435
PRIOR APPLICATION DATA: This appl. is a c-i-p of
APPLICATION NUMBER: U.S. 07/470,674
FILING DATE: 04-Jan-1990
ATTORNEY/AGENT INFORMATION:
NAME: Barron, Alexis
REGISTRATION NUMBER: 22,702
REFERENCE/DOCKET NUMBER: P16,569-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 923-4466
TELEFAX: (215) 923-2189
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 320
TYPE: AMINO ACID
STRANDEDNESS: No. 5340727 applicable
TOPOLOGY: Linear

US-07-613-083B-1

Query Match

Best Local Similarity 82.2%; Score 37; DB 1; Length 320;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
|||:||||:
DB 102 LTVLDVSNR 111

RESULT 10

US-07-821-717B-6
Sequence 6, Application US/07821717B
Patent No. 5298239
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.

APPLICANT: Cunningham, David

APPLICANT: Lyle, Vicki A.

TITLE OF INVENTION: MUTATIONS RENDERING PLATELET

TITLE OF INVENTION: GLYCOPROTEIN 1b ALPHA LESS REACTIVE

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/821,717B
FILING DATE: 15-JAN-1992
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Timain, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 610 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

PUBLICATION INFORMATION:

AUTHORS: Lopez, Jose A.

AUTHORS: Chung, Dominic W.

AUTHORS: Fujikawa, Kazuo

AUTHORS: Hagen, Frederick S.

AUTHORS: Papayannopoulou, Thalia

AUTHORS: Roth, Gerald J.

TITLE: Cloning of the alpha chain of human

TITLE: platelet glycoprotein 1b: A transmembrane protein with homology

TITLE: to leucine-rich alpha-2-glycoprotein

JOURNAL: Proc. Natl. Acad. Sci. U.S.A.

VOLUME: 84

PAGES: 5615-5619

DATE: AUG-1987

RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610

PUBLICATION INFORMATION:

AUTHORS: Zimmerman, Theodore S.

AUTHORS: Ruggeri, Zaverio M.

AUTHORS: Houghten, Richard A.

AUTHORS: Vincete, Vincete

AUTHORS: Mohri, Hiroshi

TITLE: Proteolytic fragments and synthetic

TITLE: peptides that block the binding of von Willebrand factor to the

TITLE: platelet membrane glycoprotein 1b

DOCUMENT NUMBER: EP 0 317 278 A2

FILING DATE: 16-NOV-1988

PUBLICATION DATE: 24-MAY-1989

RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293

US-07-821-717B-6

Query Match

Best Local Similarity 82.2%; Score 37; DB 1; Length 610;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
|||:||||:
DB 102 LTVLDVSNR 111

RESULT 11
US-08-119-262B-6
Sequence 6, Application US/08119262B
Patent No. 5492809
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
TITLE OF INVENTION: MUTATIONS RENDERING PLATELET
GLYCOPROTEIN IB ALPHA LESS REACTIVE
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/119,262B
FILING DATE: 09-SEP-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/821,717
FILING DATE: 15-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/22
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PUBLICATION INFORMATION:
AUTHORS: Lopez, Jose A.
AUTHORS: Chung, Dominic W.
AUTHORS: Fujikawa, Kazuo
AUTHORS: Hagen, Frederick S.
AUTHORS: Papayannopoulou, Thalia
AUTHORS: Roth, Gerald J.
TITLE: Cloning of the alpha chain of human platelet
TITLE: glycoprotein Ib: A transmembrane protein
TITLE: leucine-rich alpha-2-glycoprotein
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
VOLUME: 84
PAGES: 5615-5619
DATE: AUG-1987
RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610
PUBLICATION INFORMATION:
AUTHORS: Zimmermann, Theodore S.
AUTHORS: Ruggeri, Zaverio M.
AUTHORS: Houghten, Richard A.
AUTHORS: Vincete, Vincete
AUTHORS: Mohri, Hiroshi
TITLE: Proteolytic fragments and synthetic peptides
TITLE: that block the binding of von Willebrand
DOCUMENT NUMBER: EP 0 317 278 A2
FILING DATE: 16-NOV-1988

PUBLICATION DATE: 24-MAY-1989
RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293
US-08-119-262B-6

Query Match 82.2%; Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
DB 102 LTVLDVSFNR 111

RESULT 12
US-08-135-929A-11
Sequence 11, Application US/08135929A
Patent No. 5593959
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pincus, Matthew R.
TITLE OF INVENTION: Mutations in the Gene Encoding the Alpha
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/135,929A
FILING DATE: 14-OCT-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/23
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-135-929A-11

Query Match 82.2%; Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSFNK 10
DB 102 LTVLDVSFNR 111

RESULT 13
US-08-234-265A-11
Sequence 11, Application US/08234265A
Patent No. 5624817
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.

factor to the

APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pincus, Matthew R.
TITLE OF INVENTION: Mutations in the Gene Encoding the
NUMBER OF SEQUENCES: 11
CHAIN OF PLATELET GLYCOPROTEIN ID
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/234,265A
FILING DATE: 28-APR-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
TELEX: 978450
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-234-265A-11

Query Match 82.2% Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 1 LTXLDLSFNK 10
|||:|:
Db 102 LTVLDVSFNR 111

RESULT 14
US-07-991-867B-11
Sequence 11, Application US/07991867B
Patent No. 5476781
GENERAL INFORMATION:
APPLICANT: Moyer, Richard W.
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5476781e1 Entomopoxvirus Expression System
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESSES:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: FL
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/991,867B
FILING DATE: 12-DEC-1992

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 92/14818
FILING DATE: 12-FEB-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,685
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-991-867B-11

Query Match 80.0% Score 36; DB 1; Length 220;
Best Local Similarity 60.0%; Pred. No. 3; 2;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Oy 1 LTXLDLSFNK 10
|||:|:
Db 83 LTVLDISYNK 92

RESULT 15
US-08-107-755A-11
Sequence 11, Application US/08107755A
Patent No. 5721352
GENERAL INFORMATION:
APPLICANT: Moyer, Richard W.
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5721352e1 Entomopoxvirus Expression System
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSES:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: U.S.A.
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/107,755A
FILING DATE: 19-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,658
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (904) 375-8100
TELEFAX: (904) 372-5800

INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-107-755A-11

Query Match 80.0%; Score 36; DB 1; Length 220;
Best Local Similarity 60.0%; Pred. No. 3.2;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
Db 83 ITYLDISYRK 92

Search completed: July 16, 2003, 06:59:04
Job time : 2.84343 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 21.7222 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-4
104
Sequence: 1 SLRSLSTSLSGPVLPFPQLXK 22

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues
Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	48.1	400	9 US-10-101-464A-939	Sequence 939, App
2	50	48.1	843	9 US-10-101-464A-893	Sequence 893, App
3	48.5	46.6	998	9 US-10-101-464A-914	Sequence 914, App
4	48	46.2	147	9 US-10-101-464A-701	Sequence 701, App
5	48	46.2	383	9 US-10-101-464A-898	Sequence 898, App
6	48	46.2	828	9 US-10-101-464A-934	Sequence 934, App
7	47	45.2	170	9 US-10-101-464A-769	Sequence 769, App
8	47	45.2	612	8 US-08-910-386A-2	Sequence 2, Appli
9	47	45.2	623	9 US-10-101-464A-812	Sequence 812, App
10	47	45.2	638	9 US-10-101-464A-74	Sequence 74, Appl
11	47	45.2	919	9 US-10-101-464A-642	Sequence 642, App
12	47	45.2	998	9 US-10-101-464A-931	Sequence 931, App
13	47	45.2	1025	8 US-08-910-386A-7	Sequence 7, Appli
14	47	45.2	1133	9 US-10-101-464A-809	Sequence 809, Appl
15	46	44.2	154	9 US-10-101-464A-84	Sequence 84, Appl
16	46	44.2	156	9 US-10-101-464A-509	Sequence 509, App
17	46	44.2	247	9 US-10-101-464A-105	Sequence 105, App
18	46	44.2	323	9 US-10-101-464A-764	Sequence 764, App
19	46	44.2	612	9 US-10-101-464A-813	Sequence 813, App

20	45	44.2	804	9 US-10-101-464A-890	Sequence 890, App
21	45	43.3	173	9 US-10-101-464A-741	Sequence 741, App
22	45	43.3	205	9 US-10-101-464A-607	Sequence 607, App
23	45	43.3	960	8 US-08-910-386A-18	Sequence 18, Appl
24	45	43.3	990	9 US-10-101-464A-814	Sequence 814, App
25	44	42.3	130	9 US-10-101-464A-780	Sequence 780, App
26	44	42.3	333	9 US-10-101-464A-561	Sequence 561, App
27	44	42.3	635	9 US-10-101-464A-932	Sequence 932, App
28	44	42.3	717	9 US-10-101-464A-810	Sequence 810, App
29	44	42.3	974	9 US-10-101-464A-921	Sequence 921, App
30	44	42.3	1161	8 US-08-910-386A-20	Sequence 20, Appl
31	44	42.3	2080	9 US-09-382-860-2	Sequence 2, Appli
32	43.5	41.8	277	9 US-10-101-464A-631	Sequence 631, App
33	43.5	41.8	1021	9 US-10-101-464A-954	Sequence 954, App
34	43	41.3	110	9 US-10-106-698-6552	Sequence 6552, Ap
35	43	41.3	110	9 US-09-764-891-3731	Sequence 3731, Ap
36	43	41.3	173	9 US-10-101-464A-714	Sequence 714, App
37	43	41.3	998	9 US-10-101-464A-895	Sequence 895, App
38	42	40.4	96	9 US-10-106-698-5992	Sequence 5992, Ap
39	42	40.4	160	9 US-10-125-540-535	Sequence 535, App
40	42	40.4	160	10 US-09-764-870-535	Sequence 535, App
41	42	40.4	186	9 US-10-125-540-430	Sequence 430, App
42	42	40.4	186	10 US-09-764-870-430	Sequence 430, App
43	42	40.4	224	9 US-10-101-464A-770	Sequence 770, App
44	42	40.4	365	9 US-10-101-464A-901	Sequence 901, App
45	42	40.4	466	9 US-10-101-464A-733	Sequence 733, App

ALIGNMENTS

RESULT 1
US-10-101-464A-939
; Sequence 939, Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.102002
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 939
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-939
Query Match 48.1% Score 50; DB 9; Length 400;
Best Local Similarity 52.4%; Pred. No. 9.4;
Matches 11; Conservative 4; Mismatches 2; Indels 4; Gaps 1;
QY 2 LRSLSTSLSGPVLPFPQLXK 18
DB 347 VRLSNMNLGKIPDPGKFFP 367
RESULT 2
US-10-101-464A-893
; Sequence 893, Application US/10101464A
; Publication No. US20030046728A1

```

/ GENERAL INFORMATION:
/ APPLICANT: Strabala, Timothy
/ APPLICANT: Nieuwenhuizen, Nicolaas
/ APPLICANT: Higgins, Colleen M.
/ TITLE OF INVENTION: Compositions isolated from plant cells
/ TITLE OF INVENTION: and their use in the modification of plant cell signaling
/ FILE REFERENCE: 11000.1020c2
/ CURRENT APPLICATION NUMBER: US/10/101,464A
/ CURRENT FILING DATE: 2002-03-18
/ PRIOR APPLICATION NUMBER: 09/704,302
/ PRIOR FILING DATE: 2000-11-01
/ PRIOR APPLICATION NUMBER: 09/228,986
/ PRIOR FILING DATE: 1999-01-12
/ PRIOR APPLICATION NUMBER: 60/162,866
/ PRIOR FILING DATE: 1999-11-01
/ PRIOR APPLICATION NUMBER: PCT/US00/00724
/ PRIOR FILING DATE: 2000-01-11
/ NUMBER OF SEQ ID NOS: 989
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 893
/ LENGTH: 843
/ TYPE: PRT
/ ORGANISM: Pinus radiata
/ FEATURE:
/ NAME/KEY: VARIANT
/ LOCATION: (1)...(843)
/ OTHER INFORMATION: Xaa = Any Amino Acid
US-10-101-464A-893

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QY	2	LRLSTSLSCGVPPLFFPOLX	22.
Db	237	LELDNNLSCGIPSEFSRLVR	257

Query March 48.1%; Score 50; DB 9; Length 843;
 Query Similarity 47.6%; Pred. No. 21;
 Matches 10; Conservative 4; Mismatches 7; Indels 0;
 Gaps 0.

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US-10-101-464A-914
RESULT 3
; Sequence 914, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strubala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,996
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 914
; LENGTH: 998
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
; US-10-101-464A-914

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Query Match	46.6%	Score 48.5	DB 9	Length 998
Best Local Similarity	54.5%	Pred..No. 44		
Matches 12	Conservative 3	Mismatches 6	Indels 1	Gaps 1
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Db          575 LNSYNSLSGPLPMTKOMK 596

RESULT 4
US-10-101-464A-701
; Sequence 701, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIORITY FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 701
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-701

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Query Match      46.2%; Score 48; DB 9; Length 147;
Best Local Similarity 50.0%; Pred. No. 6.2;
Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY      1 SLRUSTSLSGVPLFFPOL 20
      |||||:||||:|
Db      114 SLDSNNITGSLPLGFSRL 133

```

```

RESULT 5
US-10-101-464A-898
; Sequence 898, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 898
; LENGTH: 383
; TYPE: PRG
; ORGANISM: Pinus radiata
US-10-101-464A-898

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Query Match	46.2%	Score	48	DB	9	Length	383
Best Local Similarity	50.0%	Pred. No.	18				
Matches	10	Conservative	5	Mismatches	5	Indels	0
						Gaps	0

OY 1 SLRSTSLSGVPLFFPOL 20
|||:||||:|
Db 295 SLDSNNITSGSIPLGFSRL 314

RESULT 6
US-10-101-464A-934

; Sequence 934, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 934
; LENGTH: 828
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-934

Query Match 46.2%; Score 48; DB 9; Length 828;
Best Local Similarity 52.6%; Pred. No. 42;
Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFFPOL 20
|||:||||:|
Db 269 LVISSNNLSGPIPFSEFSL 287

RESULT 7
US-10-101-464A-769

; Sequence 769, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 769
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-769

Query Match 45.2%; Score 47; DB 9; Length 170;
Best Local Similarity 57.9%; Pred. No. 10;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFFPOL 20
|||:||||:|
Db 147 LDLSGNNLSGVPFPAFGL 165

RESULT 8
US-08-910-386A-2

; Sequence 2, Application US/08910386A
; Patent No. US20020092041A1
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Hulbert, Scot
; APPLICANT: Richter, Todd
; TITLE OF INVENTION: Procedures and Materials for Confering
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,386A
; FILING DATE: 13-AUG-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Baetian, Kevin L.
; REGISTRATION NUMBER: 34,774
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0300
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 612 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-910-386A-2

Query Match 45.2%; Score 47; DB 8; Length 612;
Best Local Similarity 64.3%; Pred. No. 43;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 SLRSTSLSGVPL 14
|||:||||:|
Db 476 SLGLSTNNLSGPIP 489

RESULT 9
US-10-101-464A-812

; Sequence 812, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2

```

; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 812
; LENGTH: 623
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-812

Query Match          45.2%; Score 47; DB 9; Length 623;
Best Local Similarity 76.9%; Pred. No. 44;
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 14
DB      174 LRLSTSLSGPVP 186

RESULT 10
US-10-101-464A-74
; Sequence 74, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 74
; LENGTH: 638
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-74

Query Match          45.2%; Score 47; DB 9; Length 638;
Best Local Similarity 61.5%; Pred. No. 45;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 14
DB      164 LRLSTSLSGPVP 176

RESULT 11
US-10-101-464A-642
; Sequence 642, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.

; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 642
; LENGTH: 919
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-642

Query Match          45.2%; Score 47; DB 9; Length 919;
Best Local Similarity 56.2%; Pred. No. 68;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 17
DB      62 LRLSTSLSGPVP 77

RESULT 12
US-10-101-464A-931
; Sequence 931, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 931
; LENGTH: 998
; TYPE: PRT
; ORGANISM: Pinus radiata
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)-(998)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-101-464A-931

Query Match          45.2%; Score 47; DB 9; Length 998;
Best Local Similarity 57.9%; Pred. No. 74;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 20
DB      147 LRLSTSLSGPVP 165

RESULT 13
```

US-08-910-386A-7
; Sequence 7, Application US/08910386A
; Patent No. US20020092041A1
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Yuang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Hulbert, Scot
; APPLICANT: Richert, Todd
; TITLE OF INVENTION: Procedures and Materials for Confering
; NUMBER OF INVENTION: Disease Resistance in Plants
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,386A
; FILING DATE: 13-AUG-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-058950US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1025 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-910-386A-7

Query Match 45.2%; Score 47; DB 8; Length 1025;
Best Local Similarity 64.3%; Pred. No. 76;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLRSLSTSLSGPVP 14
|||:|||||
Db 476 SLGLSTNNLSGPIP 489

RESULT 14
US-10-101-464A-809
; Sequence 809, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11

NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 809
; LENGTH: 1133
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-809

Query Match 45.2%; Score 47; DB 9; Length 1133;
Best Local Similarity 56.2%; Pred. No. 85;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 LRLSTSLSGPVPPLF 17
|||:|||||
Db 276 LRLSTSLSGPVPPLF 291

RESULT 15
US-10-101-464A-84
; Sequence 84, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 84
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-84

Query Match 44.2%; Score 46; DB 9; Length 154;
Best Local Similarity 57.9%; Pred. No. 13;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 LRLSTSLSGPVPPLF 20
|||:|||||
Db 124 LRLSTSLSGPVPPLF 142

Search completed: July 16, 2003, 06:57:41
Job time : 21.7222 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 / Search time 4.05556 Seconds
(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-4
Perfect score: 104
Sequence: 1 SLRUSSTLSGVPPLFFPOLXK 22

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued Patents AA:*

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- 2: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
- 4: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
- 5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep:*
- 6: /cgn2_6/prodata/1/iaa/backfill1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	98.1	22	3	US-08-898-351-4
2	60	57.7	327	1	US-08-238-163-4
3	58	55.8	330	1	US-08-238-163-4
4	47	45.2	638	4	US-08-228-986-74
5	47	45.2	1012	2	US-08-475-891A-4
6	47	45.2	1025	2	US-08-567-375-4
7	47	45.2	1025	2	US-08-567-375-4
8	46	44.2	142	4	US-08-567-375-4
9	46	44.2	154	4	US-08-567-375-4
10	46	44.2	247	4	US-08-567-375-4
11	46	44.2	863	2	US-08-567-375-4
12	45	43.3	277	2	US-08-567-375-4
13	45	43.3	544	2	US-08-567-375-4
14	44.5	42.8	395	6	US-08-567-375-4
15	43	40.9	204	1	US-08-567-375-4
16	42.5	40.9	301	4	US-08-567-375-4
17	42.5	40.9	799	4	US-08-567-375-4
18	42.5	40.9	968	4	US-08-567-375-4
19	42.5	40.9	968	4	US-08-567-375-4
20	42.5	40.9	1016	4	US-08-567-375-4
21	42.5	40.9	1112	4	US-08-567-375-4
22	42.5	40.9	1112	4	US-08-567-375-4
23	42	40.4	910	4	US-08-567-375-4
24	42	40.4	1196	4	US-08-567-375-4
25	41.5	39.9	1023	2	US-08-567-375-4
26	41.5	39.9	1023	2	US-08-567-375-4
27	41.5	39.9	1023	2	US-08-567-375-4

28	41	39.4	947	4	US-09-228-986-73	Sequence 73, Appl
29	41	39.4	1299	5	PCT-US95-08354A-2	Sequence 2, Appl
30	40	38.5	96	4	US-08-945-983-9	Sequence 9, Appl
31	40	38.5	154	4	US-09-228-986-99	Sequence 99, Appl
32	40	38.5	630	4	US-09-228-986-71	Sequence 71, Appl
33	40	38.5	806	4	US-08-945-983-2	Sequence 2, Appl
34	40	38.5	968	4	US-09-228-986-76	Sequence 76, Appl
35	39	37.5	70	2	US-08-691-814B-34	Sequence 34, Appl
36	39	37.5	145	4	US-09-228-986-106	Sequence 106, App
37	39	37.5	199	4	US-09-144-918-4	Sequence 4, Appl
38	39	37.5	257	2	US-08-918-206-3	Sequence 3, Appl
39	39	37.5	258	2	US-08-463-081B-10	Sequence 10, Appl
40	39	37.5	258	2	US-08-461-379A-10	Sequence 10, Appl
41	39	37.5	258	2	US-08-462-390B-10	Sequence 10, Appl
42	39	37.5	258	2	US-08-463-074B-10	Sequence 10, Appl
43	39	37.5	258	3	US-08-465-585C-10	Sequence 10, Appl
44	39	37.5	258	3	US-08-652-446-10	Sequence 10, Appl
45	39	37.5	268	4	US-09-353-585-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-898-351-4
Sequence 4, Application US/08898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898.351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 22
TYPE: PRT
ORGANISM: CARROT ROOT
FEATURE:
NAME/KEY: UNSURE
LOCATION: (21)
OTHER INFORMATION: Xaa represents any amino acid found in plant
US-08-898-351-4

Query Match 98.1%; Score 102; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 5; le-10;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLRUSSTLSGVPPLFFPOLXK 22
DB 1 SLRUSSTLSGVPPLFFPOLXK 22

RESULT 2
US-08-238-163-4
Sequence 4, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US

ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238.163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-4

Query Match 57.7%; Score 60; DB 1; Length 327;
Best Local Similarity 63.2%; Pred. No. 0.055;
Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLPFPOL 20
DB 120 LRLSFTMLTGPILPFLSQL 138

RESULT 3
US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238.163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2

Query Match 55.8%; Score 58; DB 1; Length 330;
Best Local Similarity 70.0%; Pred. No. 0.12;
Matches 14; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

OY 1 SLRLSTSLSGVPLPFPOL 20
DB 123 SLRLSWTNLSGVDPFLSQL 142

RESULT 4
US-09-228-986-74
Sequence 74, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ. ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 74
LENGTH: 638
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-74

Query Match 45.2%; Score 47; DB 4; Length 638;
Best Local Similarity 61.5%; Pred. No. 14;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 2 LRLSTSLSGPV 14
DB 164 LRLNNNLSGPIL 176

RESULT 5
US-08-475-891A-4
Sequence 4, Application US/08475891A
Patent No. 5859339
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
TITLE OF INVENTION: Procedures and Materials for Confering
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475.891A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:

NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058910US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1012 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..1012
OTHER INFORMATION: /note="Xa21 Xanthomonas spp.
OTHER INFORMATION: disease resistance polypeptide RRK-B
OTHER INFORMATION: from rice (Oryza sativa)"
US-08-475-891A-4

Query Match 45.2%; Score 47; DB 2; Length 1012;
Best Local Similarity 64.3%; Pred. No. 23;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Oy 1 SLRSTSLSGPVP 14
|||:||||:
Db 476 SLGLSTNLSGP 489

RESULT 6
US-08-567-375-4
Sequence 4, Application US/08567375
Patent No. 5952485

GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Conferring
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,375
FILING DATE: 04-DEC-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058930
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1025 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-567-375-4

Query Match 45.2%; Score 47; DB 2; Length 1025;
Best Local Similarity 64.3%; Pred. No. 24;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Oy 1 SLRSTSLSGPVP 14
|||:||||:
Db 476 SLGLSTNLSGP 489

RESULT 7
US-08-587-680A-4
Sequence 4, Application US/08587680A
Patent No. 5977434

GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Conferring
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/587,680A
FILING DATE: 17-JAN-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/567,375
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058940US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1025 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-587-680A-4

Query Match 45.2%; Score 47; DB 2; Length 1025;
Best Local Similarity 64.3%; Pred. No. 24;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
Db 476 SLGSLSTSLSGPVP 14
476 SLGSLSTSLSGPVP 489

RESULT 8

US-08-945-983-7
Sequence 7, Application US/08945983
Patent No. 6235527
GENERAL INFORMATION:
APPLICANT: Thomas, Colwyn M
APPLICANT: Balint-Kurti, Peter J
APPLICANT: Jones, David A
APPLICANT: Jones, Jonathan DG
TITLE OF INVENTION: Plant pathogen resistance genes and uses
TITLE OF INVENTION: thereof
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6225527th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/945.983
FILING DATE: 12-NOV-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/01155
FILING DATE: 13-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9509575.8
FILING DATE: 11-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 142 amino acids
TYPE: amino acid
TOPOLOGY: linear

US-08-945-983-7

Query Match 44.2%; Score 46; DB 4; Length 142;
Best Local Similarity 69.2%; Pred. No. 3.6;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Db 2 LRLSTSLSGPVP 14
80 LRLSTSLSGPVP 92

RESULT 9

US-09-228-986-84
Sequence 84, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions isolated from plant cells

TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228.986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 84
LENGTH: 154
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-84

Query Match 44.2%; Score 46; DB 4; Length 154;
Best Local Similarity 57.9%; Pred. No. 3.9;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Db 2 LRLSTSLSGPVP 20
124 LRLSTSLSGPVP 142

RESULT 10

US-09-228-986-105
Sequence 105, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions isolated from plant cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228.986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 105
LENGTH: 247
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-09-228-986-105

Query Match 44.2%; Score 46; DB 4; Length 247;
Best Local Similarity 69.2%; Pred. No. 6.7;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Db 2 LRLSTSLSGPVP 14
131 LRLSTSLSGPVP 143

RESULT 11

US-08-666-271-2
Sequence 2, Application US/08666271
Patent No. 5920000
GENERAL INFORMATION:
APPLICANT: JONES, JONATHAN D
APPLICANT: HAMMOND-KOSACK, KIM E
APPLICANT: THOMAS, COLWYN M
APPLICANT: JONES, DAVID A
TITLE OF INVENTION: PLANT PATHOGEN RESISTANCE GENES AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P. C.
STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22201

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/666,271
FILING DATE: 19-SEP-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/CB94/02812
FILING DATE: 23-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9326428.1
FILING DATE: 24-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9409363.0
FILING DATE: 11-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B.J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 620-7
TELEPHONE: 703-816-4091
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 863 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-666-271-2

Query Match 44.2%; Score 46; DB 2; Length 863;
Best Local Similarity 69.2%; Pred. No. 28;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVP 14
Db 364 LDLSNSLVTGP 376

RESULT 12

US-08-567-375-16
Sequence 16, Application US/08567375
Patent No. 5952485
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,375
FILING DATE: 04-DEC-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058930
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 277 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-567-375-16

Query Match 43.3%; Score 45; DB 2; Length 277;
Best Local Similarity 47.4%; Pred. No. 11;
Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFPOL 20
Db 75 LDLSQNLSCPTVQIAQT 93

RESULT 13

US-08-587-680A-25
Sequence 25, Application US/08587680A
Patent No. 5977434
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/587,680A
FILING DATE: 17-JAN-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/567,375
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058940US
TELEPHONE: (415) 576-0200

```

? TELEFAX: (415) 576-0300
? INFORMATION FOR SEQ ID NO: 25:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 544 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? FEATURE:
? NAME/KEY: Protein
? LOCATION: 1..544
? OTHER INFORMATION: /note="Tomato Receptor kinase 1 (TRK1)"
US-08-567-680A-25

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Query Match	43.3%	Score 45	DB 2	Length 544
Best Local Similarity	47.4%	Pred. No. 24		
Matches 9	Conservative 3	Mismatches 7	Indels 0	Gaps 0

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Oy      2 LRLSTSLSGPVPLFFPQL 20
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Db      72 LRLSQNLGSPIPVQIAQI 90

```

RESULT 14
 5196194-18
 Patent No. 5196194
 APPLICANT: RUTTER, WILLIAM J.; GOODMAN, HOWARD M.
 TITLE OF INVENTION: VACCINES CONTAINING HEPATITIS B S-PROTEIN
 NUMBER OF SEQUENCES: 21
 CURRENT APPLICATION NUMBER:
 APPLICATION NUMBER: US/07/679,621
 FILING DATE: 7-DEC-1984
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 513,055
 FILING DATE: 12-JUL-1983
 APPLICATION NUMBER: 107,267
 FILING DATE: 21-DEC-1979
 APPLICATION NUMBER: 41,909
 FILING DATE: 24-MAY-1979
 SEQ ID NO:18:
 LENGTH: 395
 5196194-18

Query Match	42.8%;	Score 44.5;	DB 6;	Length 395;
Best Local Similarity	64.7%;	Pred. No. 20;		
Matches 11; Conservative	1;	Mismatches 4;	Indels 1;	Gaps 1;

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QY      3  RLSTSLSGPVPL-FPP 18
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Db      8  RKGGTNLSVPVPLGFFP 24

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US-08-591-989-4
RESULT 15
Sequence 4, Application US/08591989
Patent No. 5785721
GENERAL INFORMATION:
APPLICANT: Ross S. Rabin, Smedha Jayasena
APPLICANT: And Larry Gold
TITLE OF INVENTION: HIGH AFFINITY NUCLEIC
TITLE OF INVENTION: ACID LIGANDS OF ICP4
NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 East Prentice Avenue, Suite #2000
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.40 MB
MEDIUM TYPE: storage
COMPUTER: IBM COMPATIBLE

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1 OPERATING SYSTEM: MS-DOS
2 SOFTWARE: WORD PERFECT 6.0
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/08/591,985
5 FILING DATE:
6 CLASSIFICATION: 435
7 ATTORNEY/AGENT INFORMATION:
8 NAME: Barry J. Swanson
9 REGISTRATION NUMBER: 33,215
10 REFERENCE/DOCKET NUMBER: NX 49
11 TELECOMMUNICATION INFORMATION:
12 TELEPHONE: (303) 793-3333
13 TELEFAX: (303) 793-3433
14 INFORMATION FOR SEQ. ID NO.: 4:
15 SEQUENCE CHARACTERISTICS:
16 LENGTH: 204
17 TYPE: amino acid
18 STRANDEDNESS: single
19 TOPOLOGY: linear
20
21 US-08-591-989-4

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Query Match	41.3%	Score	43	DB	1	Length	204
Best Local Similarity	54.5%	Score	No. 16				
Matches	6	Conservative	4	Mismatches	1	Indels	0
						Gaps	0

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QY      10 SGPVPLFFPQL 20
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Db      79 AGPVVPVFIPEM 89
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Search completed: July 16, 2003, 06:59:05
Job time : 5.05556 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 15.798 Seconds

(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XXEVIPLXQSLTLPMLK 16

Scoring table: BLOSUM62

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Searched: 451899 segs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

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13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	49	73.1	942	US-10-101-464A-911	Sequence 911, App
2	41	61.2	159	US-10-101-464A-597	Sequence 597, App
3	41	61.2	167	US-10-101-464A-715	Sequence 715, App
4	41	61.2	370	US-10-101-464A-944	Sequence 944, App
5	41	61.2	894	US-09-754-853A-1099	Sequence 1099, App
6	41	61.2	894	US-09-754-853A-1116	Sequence 1116, App
7	41	61.2	894	US-09-754-853A-1117	Sequence 1117, App
8	41	61.2	894	US-09-754-853A-1118	Sequence 1118, App
9	41	61.2	894	US-09-754-853A-1119	Sequence 1119, App
10	39	58.2	304	US-10-101-464A-717	Sequence 717, App
11	39	58.2	516	US-10-101-464A-936	Sequence 936, App
12	38	56.7	711	US-10-101-464A-79	Sequence 79, Appl
13	38	56.7	977	US-09-949-192-23	Sequence 23, Appl
14	38	56.7	1004	US-09-738-626-4210	Sequence 4210, App
15	37	55.2	156	US-10-101-464A-740	Sequence 740, App
16	37	55.2	193	US-09-796-692-2458	Sequence 2458, App
17	37	55.2	193	US-10-040-862-2458	Sequence 2458, App
18	37	55.2	224	US-10-101-464A-751	Sequence 751, App
19	37	55.2	635	US-09-990-385-1	Sequence 1, Appl

20	37	55.2	910	US-10-101-464A-72	Sequence 72, Appl
21	36	53.7	205	US-10-101-464A-607	Sequence 607, App
22	36	53.7	295	US-09-925-300-1061	Sequence 1061, App
23	36	53.7	353	US-10-106-698-4438	Sequence 4438, App
24	36	53.7	426	US-09-815-242-10153	Sequence 10153, App
25	36	53.7	498	US-10-156-761-14582	Sequence 14582, App
26	36	53.7	510	US-10-156-761-11980	Sequence 11980, App
27	36	53.7	524	US-10-101-464A-943	Sequence 943, App
28	36	53.7	731	US-09-361-630-3	Sequence 3, Appl
29	36	53.7	811	US-09-815-242-11875	Sequence 11875, App
30	36	53.7	810	US-09-772-1348-14	Sequence 14, Appl
31	36	53.7	854	US-09-754-853A-1098	Sequence 1098, App
32	36	53.7	854	US-09-754-853A-1101	Sequence 1101, App
33	36	53.7	854	US-09-754-853A-1103	Sequence 1103, App
34	36	53.7	854	US-09-754-853A-1105	Sequence 1105, App
35	36	53.7	854	US-09-754-853A-1107	Sequence 1107, App
36	36	53.7	854	US-09-754-853A-1109	Sequence 1109, App
37	36	53.7	854	US-09-754-853A-1111	Sequence 1111, App
38	36	53.7	854	US-09-754-853A-1113	Sequence 1113, App
39	36	53.7	854	US-09-754-853A-1115	Sequence 1115, App
40	36	53.7	877	US-09-754-853A-1097	Sequence 1097, App
41	36	53.7	877	US-09-754-853A-1100	Sequence 1100, App
42	36	53.7	877	US-09-754-853A-1102	Sequence 1102, App
43	36	53.7	877	US-09-754-853A-1104	Sequence 1104, App
44	36	53.7	877	US-09-754-853A-1106	Sequence 1106, App
45	36	53.7	877	US-09-754-853A-1108	Sequence 1108, App

ALIGNMENTS

RESULT 1
US-10-101-464A-911
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strubala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.10202
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR APPLICATION NUMBER: 2002-03-18
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: Fasteq for Windows Version 4.0
; SEQ ID NO 911
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
; US-10-101-464A-911
Query Match 73.1%; Score 49; DB 9; Length 942;
Best Local Similarity 75.0%; Pred. No. 1.5;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
CY 5 IPXQSLTLPMLK 16
Db 415 IPSELTLPMLK 426
RESULT 2
US-10-101-464A-597
; Sequence 597, Application US/10101464A
; Publication No. US20030046728A1

GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-01-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 597
LENGTH: 159
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-10-101-464A-597

Query Match 61.2%; Score 41; DB 9; Length 159;
Best Local Similarity 66.7%; Pred. No. 5.3;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
|||:|||||
Db 85 IPSELTLSNLK 96

RESULT 3
US-10-101-464A-715
Sequence 715, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-01-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 715
LENGTH: 167
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-715

Query Match 61.2%; Score 41; DB 9; Length 167;
Best Local Similarity 66.7%; Pred. No. 5.6;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
|||:|||||
Db 45 IPSLUTQPLNLK 56

RESULT 4

US-10-101-464A-944
Sequence 944, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-01-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 944
LENGTH: 370
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-944

Query Match 61.2%; Score 41; DB 9; Length 370;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
|||:|||||
Db 166 IPSTLSQIPNLK 177

RESULT 5
US-09-754-853A-1099
Sequence 1099, Application US/09754853A
Publication No. US2003005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
TITLE OF INVENTION: Soybean Cyst Nematode Resistance
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
CURRENT FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
PRIOR FILING DATE: 2000-01-07
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1099
LENGTH: 894
TYPE: PRT
FEATURE:
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: 318013_region_A3
US-09-754-853A-1099

Query Match 61.2%; Score 41; DB 9; Length 894;
Best Local Similarity 53.8%; Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 4 VIPXQSLTPNLK 16
|||:|||||
Db 241 VVPASLTPNLK 253

RESULT 6
US-09-754-853A-1116

```
; Sequence 1116, Application US/09754853A
; Publication No. US20030005491A1
; GENERAL INFORMATION:
; APPLICANT: Hauge, Brian M.
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Parsons, Jeremy D.
; APPLICANT: Wang, Ming Li
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-10(15810)B
; CURRENT APPLICATION NUMBER: US/09/754,853A
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 1116
; LENGTH: 894
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: rhg4_a3244_amplicon
US-09-754-853A-1116
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Query Match      61.2%  Score 41; DB 9; Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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```
QY      4 VIPXQSTLPNLK 16
Db      241 VVPASTLSLPSLK 253
```

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RESULT 7
US-09-754-853A-1117
; Sequence 1117, Application US/09754853A
; Publication No. US20030005491A1
; GENERAL INFORMATION:
; APPLICANT: Hauge, Brian M.
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Parsons, Jeremy D.
; APPLICANT: Wang, Ming Li
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-10(15810)B
; CURRENT APPLICATION NUMBER: US/09/754,853A
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 1117
; LENGTH: 894
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: rhg4_Minsoy_amplicon
US-09-754-853A-1117
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Query Match      61.2%  Score 41; DB 9; Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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```
QY      4 VIPXQSTLPNLK 16
Db      241 VVPASTLSLPSLK 253
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RESULT 8
US-09-754-853A-1118
; Sequence 1118, Application US/09754853A
; Publication No. US20030005491A1
; GENERAL INFORMATION:
; APPLICANT: Hauge, Brian M.
; APPLICANT: Parnell, Laurence D.
```

```
; APPLICANT: Parsons, Jeremy D.
; APPLICANT: Wang, Ming Li
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-10(15810)B
; CURRENT APPLICATION NUMBER: US/09/754,853A
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 1118
; LENGTH: 894
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: rhg4_Jack_amplicon
US-09-754-853A-1118
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Query Match      61.2%  Score 41; DB 9; Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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```
QY      4 VIPXQSTLPNLK 16
Db      241 VVPASTLSLPSLK 253
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RESULT 9
US-09-754-853A-1119
; Sequence 1119, Application US/09754853A
; Publication No. US20030005491A1
; GENERAL INFORMATION:
; APPLICANT: Hauge, Brian M.
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Parsons, Jeremy D.
; APPLICANT: Wang, Ming Li
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-10(15810)B
; CURRENT APPLICATION NUMBER: US/09/754,853A
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 1119
; LENGTH: 894
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: rhg4_eking_amplicon
US-09-754-853A-1119
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Query Match      61.2%  Score 41; DB 9; Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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```
QY      4 VIPXQSTLPNLK 16
Db      241 VVPASTLSLPSLK 253
```

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RESULT 10
US-10-101-464A-717
; Sequence 717, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
```

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; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 717
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-717

Query Match      58.2%; Score 39; DB 9; Length 304;
Best Local Similarity 63.6%; Pred. No. 26;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 VIPXOLSTLPN 14
      :|:|:|:|:|
      :|:|:|:|:|
Db      101 IIPKMLSTMPN 111

RESULT 11
US-10-101-464A-936
; Sequence 936, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 936
; LENGTH: 516
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-936

Query Match      58.2%; Score 39; DB 9; Length 516;
Best Local Similarity 58.3%; Pred. No. 48;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      5 IFOXOLSTLPN 16
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      :|:|:|:|:|
Db      66 LPSSLATLPK 77

RESULT 12
US-10-101-464A-79
; Sequence 79, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
```

```

; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-79

Query Match      56.7%; Score 38; DB 9; Length 711;
Best Local Similarity 63.6%; Pred. No. 1,1e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      5 IFOXOLSTLPN 15
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      :|:|:|:|:|
Db      246 IPNELANLPN 256

RESULT 13
US-09-949-192-23
; Sequence 23, Application US/09949192
; Patent No. US20020142292A1
; GENERAL INFORMATION:
; APPLICANT: Parham, Christi L.
; APPLICANT: Gorman, Daniel L.
; APPLICANT: Kurata, Hirokazu
; APPLICANT: Arai, Naoko
; APPLICANT: Sana, Theodore R.
; APPLICANT: Mattson, Jeanine D.
; APPLICANT: Murphy, Erin E.
; APPLICANT: Savkoof, Chetan
; APPLICANT: Grein, Jeffrey
; APPLICANT: Smith, Kathleen M.
; APPLICANT: McClanahan, Terrill K.
; TITLE OF INVENTION: MAMMALIAN GENES, RELATED REAGENTS AND METHODS
; FILE REFERENCE: DX01169K
; CURRENT APPLICATION NUMBER: US/09/949,192
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 60/231,267
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: Patentin version 3.1
; SEQ ID NO: 23
; LENGTH: 977
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-949-192-23

Query Match      56.7%; Score 38; DB 10; Length 977;
Best Local Similarity 50.0%; Pred. No. 1.5e+02;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      3 EVIFOXOLSTLPN 16
      :|:|:|:|:|
      :|:|:|:|:|
Db      494 EIOPAFSLMPN 507

RESULT 14
US-09-738-626-4210
; Sequence 4210, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
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Search completed: July 16, 2003, 06:57:42
Job time : 16.798 secs

APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 4210
LENGTH: 1004
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738-626-4210

Query Match 56.7%; Score 38; DB 9; Length 1004;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 QLSLPLNK 16
|||||
Db 566 QLSLPLNK 574

RESULT 15
US-10-101-464A-740
Sequence 740, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 740
LENGTH: 156
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-740

Query Match 55.2%; Score 37; DB 9; Length 156;
Best Local Similarity 46.2%; Pred. No. 28;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 4 VIPXQSLPLNK 16
|||:|:|:|:
Db 88 IIPGLSLPLNK 100

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 2.94949 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XXEIVPXQLSTLPNPK 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/prodata/1/iaa/6A_COMB.pep.*

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5: /cgn2_6/prodata/1/iaa/PCUS_COMB.pep.*

6: /cgn2_6/prodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	63	94.0	16	3	US-08-898-351-5
2	39	58.2	162	4	US-08-858-207A-263
3	39	58.2	327	1	US-08-238-163-4
4	39	58.2	330	1	US-08-238-163-2
5	38	56.7	711	4	US-09-228-986-79
6	37	55.2	635	4	US-09-142-623-1
7	37	55.2	910	4	US-09-228-986-72
8	36	53.7	1382	3	US-09-057-570-4
9	35	52.2	227	1	US-08-244-646-17
10	35	52.2	270	4	US-09-134-001C-5441
11	35	52.2	342	1	US-08-244-646-15
12	35	52.2	342	1	US-08-592-936B-21
13	35	52.2	342	1	US-09-111-573-21
14	35	52.2	443	1	US-08-399-986B-2
15	35	52.2	443	1	US-08-493-754A-2
16	35	52.2	466	1	US-07-923-739-2
17	35	52.2	1005	2	US-08-935-450-2
18	34	50.7	482	4	US-09-457-046B-63
19	34	50.7	749	4	US-09-562-737-99
20	34	50.7	1657	3	US-09-057-570-2
21	34	50.7	1805	3	US-09-057-570-7
22	33	49.3	35	2	US-08-392-625-35
23	33	49.3	35	2	US-08-466-961A-35
24	33	49.3	40	2	US-08-645-193B-66
25	33	49.3	157	4	US-09-228-986-90
26	33	49.3	456	2	US-08-910-731-2
27	33	49.3	456	2	US-08-910-731-8

ALIGNMENTS

28	33	49.3	456	2	US-08-795-195-2	Sequence 2, Appli
29	33	49.3	475	5	US-08-272-255-13	Sequence 1, Appli
30	33	49.3	475	5	PCT-US95-08565-13	Sequence 13, Appli
31	33	49.3	648	2	US-08-817-436A-2	Sequence 2, Appli
32	32	47.8	14	1	US-07-946-234A-4	Sequence 4, Appli
33	32	47.8	14	1	US-08-123-161A-4	Sequence 4, Appli
34	32	47.8	14	1	US-08-483-278-4	Sequence 4, Appli
35	32	47.8	21	1	US-07-748-292-5	Sequence 5, Appli
36	32	47.8	37	1	US-08-401-246-2	Sequence 2, Appli
37	32	47.8	83	2	US-08-537-811-47	Sequence 47, Appli
38	32	47.8	121	1	US-07-748-292-1	Sequence 1, Appli
39	32	47.8	125	2	US-08-662-480B-1	Sequence 1, Appli
40	32	47.8	136	6	US-08-662-480B-1	Sequence 1, Appli
41	32	47.8	141	4	US-08-444-818-56	Sequence 56, Appli
42	32	47.8	151	3	US-08-916-043-5	Sequence 5, Appli
43	32	47.8	151	6	US-08-916-043-5	Sequence 5, Appli
44	32	47.8	179	4	US-08-444-818-77	Sequence 77, Appli
45	32	47.8	288	4	US-08-858-207A-324	Sequence 324, Appli

RESULT 1

US-08-898-351-5
Sequence 5, Application US/08898351A
Patent No. 6036867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898,351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 16
TYPE: PRP
ORGANISM: CARROT ROOT
FEATURE:
NAME/KEY: UNSURE
LOCATION: (1)..(7)
OTHER INFORMATION: Xaa represents any amino acid found in plant
US-08-898-351-5

Query Match

Best Local Similarity 94.0%; Score 63; DB 3; Length 16;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 3 EVIPXQLSTLPNPK 16
DB 3 EVIPXQLSTLPNPK 16

RESULT 2

US-08-858-207A-263
Sequence 263, Application US/08858207A
Patent No. 6348328
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Nicholas, Richard
APPLICANT: Stodola, Robert
TITLE OF INVENTION: No. 6348328el Compounds
NUMBER OF SEQUENCES: 552
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA

ZIP: 9406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/858,207A
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/017670
FILING DATE: 14-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Glimm, Edward R.
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50475
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 263:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6348328e
US-08-858-207A-263

Query Match 58.2%; Score 39; DB 4; Length 162;
Best Local Similarity 57.1%; Pred. No. 8.6;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 3 EVIPXOLSTLPNLK 16
 |:-| |||||
Db 32 EIIAYNLSTSPNLE 45

RESULT 3
US-08-238-163-4
Sequence 4, Application US/08238163
Patent No. 5569930
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John W.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
TITLE OF INVENTION: POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASES
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600

```

: TELEFAX: (415) 543-5043
: INFORMATION FOR SEQ ID NO: 4
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 327 amino acids
:   TYPE: amino acid
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-238-163-4

Query Match
Best Local Similarity 58.2%; Score 39; DB 1; Length 327;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 IPXQSLTPNL 15
Db 155 IPSSLSELPNL 165

RESULT 4
US-08-238-163-2
: Sequence 2, Application US/08238163
: Patent No. 5569830
: GENERAL INFORMATION:
: APPLICANT: BENNETT, Alan
: APPLICANT: LABAVITCH, John M.
: APPLICANT: POWELL, Ann
: APPLICANT: STOTZ, Henrik
: TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
: TITLE OF INVENTION: POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
: NUMBER OF SEQUENCES: 24
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend Khourie and Crew
: STREET: Stewart Street Tower, One Market Plaza
: CITY: San Francisco
: STATE: California
: COUNTRY: US
: ZIP: 94105-1493
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent in Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/238.163
: FILING DATE: 03-MAY-1994
: CLASSIFICATION: 800
: ATTORNEY/AGENT INFORMATION:
: NAME: Bastian, Kevin L.
: REGISTRATION NUMBER: 34,774
: REFERENCE/DOCKET NUMBER: 2307E-540
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 543-9600
: TELEFAX: (415) 543-5043
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 330 amino acids
:   TYPE: amino acid
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-238-163-2

Query Match
Best Local Similarity 58.2%; Score 39; DB 1; Length 330;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 IPXQSLTPNL 15
Db 159 IPSSLSELPNL 169

RESULT 5
US-09-228-986-79
: Sequence 79, Application US/09228986

```

```

; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-09-228-986-79

Query Match      56.7%; Score 38; DB 4; Length 711;
Best Local Similarity 63.6%; Pred. No. 70;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      5 IPXOLSTLPNL 15
      |||:|||||
      246 IPNELANLPNL 256

Db

RESULT 6
US-09-142-623-1
; Sequence 1, Application US/09142623
; Patent No. 6337201
; GENERAL INFORMATION:
; APPLICANT: Koji YANAI et al.
; TITLE OF INVENTION: -FRUCTOFRANOSIDASE AND ITS GENE, METHOD OF
; TITLE OF INVENTION: ISOLATING -FRUCTOFRANOSIDASE GENE, SYSTEM FOR PRODUCING
; TITLE OF INVENTION: -FRUCTOFRANOSIDASE, AND -FRUCTOFRANOSIDASE VARIANT
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
; STREET: 2033 K Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/142,623
; FILING DATE: September 10, 1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee Cheng
; REGISTRATION NUMBER: 40,949
; REFERENCE/DOCKET NUMBER: 98-0989*/LC(WMC)/144
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-721-8200
; TELEFAX: 202-721-8250
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 635 amino acid residues
; TYPE: amino acid
; STRANDEDNESS: No. 6337201 relevant
; TOPOLOGY: No. 6337201 relevant
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Microorganism: Aspergillus niger ACE-2-1
; ORGANISM: (ATCC 20611)
; FEATURE:
; NAME/KEY: mat peptide
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```

; LOCATION: 1..635
; IDENTIFICATION METHOD: E
; US-09-142-623-1

Query Match      55.2%; Score 37; DB 4; Length 635;
Best Local Similarity 77.8%; Pred. No. 92;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      6 PXOLSTLPN 14
      |||:|||||
      11 PTLNLTLPN 19

Db

RESULT 7
US-09-228-986-72
; Sequence 72, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 72
; LENGTH: 910
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-09-228-986-72

Query Match      55.2%; Score 37; DB 4; Length 910;
Best Local Similarity 72.7%; Pred. No. 1,4e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 IPXOLSTLPNL 15
      |||:|||||
      167 IPPOLCLPNL 177

Db

RESULT 8
US-09-057-570-4
; Sequence 4, Application US/09057570
; Patent No. 6013266
; GENERAL INFORMATION:
; APPLICANT: Segers, Roud P.A.M.
; APPLICANT: Frey, Joachim
; TITLE OF INVENTION: Live attenuated Actinobacillus
; TITLE OF INVENTION: pleuropneumoniae
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Akzo No. 6013266 Patent Department
; STREET: 1300 Piccard Drive, Suite 206
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/057,570
; FILING DATE: 09-APR-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Gormley, Mary E.
; REGISTRATION NUMBER: 34,409
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 948-7400
; TELEFAX: (301) 948-9751
```

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1382 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-057-570-4

Query Match 53.7%; Score 36; DB 3; Length 1382;
Best Local Similarity 53.8%; Pred. No. 3.4e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

DB 4 VIPXOLSTLPNLK 16
759 VTPSGLSSIRNVK 771

RESULT 9

US-08-244-646-17
Sequence 17, Application US/08244646
Patent No. 5744692

GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
APPLICANT: Bergmann, Carl
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sally A. Sullivan
STREET: 5370 Manhattan Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089

INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 227 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-17

Query Match 52.2%; Score 35; DB 1; Length 227;
Best Local Similarity 54.5%; Pred. No. 65;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

DB 5 IPXOLSTLPNL 15

DB 55 LPSISLTPNL 65

RESULT 10
US-09-134-001C-5441
Sequence 5441, Application US/09134001C
Patent No. 6380370

GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: CTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 5441
LENGTH: 270
TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5441

Query Match 52.2%; Score 35; DB 4; Length 270;
Best Local Similarity 45.5%; Pred. No. 79;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

DB 4 VIPXOLSTLPN 14
127 IMPNQLITIPN 137

RESULT 11

US-08-244-646-15
Sequence 15, Application US/08244646
Patent No. 5744692

GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
APPLICANT: Bergmann, Carl
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sally A. Sullivan
STREET: 5370 Manhattan Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.

REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-15

Query Match 52.2%; Score 35; DB 1; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSLPML 15
:|:|||||
Db 170 LPPSISLPLN 180

RESULT 12
US-08-592-936B-21
Sequence 21, Application US/08592936B
Patent No. 5783393
GENERAL INFORMATION:
APPLICANT: Kellogg, Jill A.
APPLICANT: Bestwick, Richard K.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,936B
FILING DATE: 29-JAN-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-08-592-936B-21

Query Match 52.2%; Score 35; DB 1; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSLPML 15
:|:|||||

Db 170 LPPSISLPLN 180

RESULT 13
US-09-111-573-21
Sequence 21, Application US/09111573
Patent No. 5929302
GENERAL INFORMATION:
APPLICANT: Kellogg, Jill A.
APPLICANT: Bestwick, Richard K.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,573
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/592,936
FILING DATE: 29-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-09-111-573-21

Query Match 52.2%; Score 35; DB 2; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSLPML 15
:|:|||||
Db 170 LPPSISLPLN 180

RESULT 14
US-08-399-986B-2
Sequence 2, Application US/08399986B
Patent No. 5801041
GENERAL INFORMATION:
APPLICANT: Godwin, Andrew K.
TITLE OF INVENTION: No.5801041e1 Gene Associated with Suppression
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dann, Dorfman, Herrell and Skillman
STREET: 1601 Market Street
CITY: Philadelphia

STATE: PA
COUNTRY: USA
ZIP: 19103-2307
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/399,986B
FILING DATE: 06-MAR-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Hagan, Patrick J.
REGISTRATION NUMBER: 27,643
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 563-4100
TELEFAX: (215) 563-4044
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 443 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
OS-08-399-986B-2

Query Match	52.2%	Score 35;	DB 1;	Length 443;
Best Local Similarity	46.2%;	Pred. NO. 1.4e+02;		
Matches 6;	Conservative 3;	Mismatches 4;	Indels 0;	Gaps 0

RESULT 15
 US-08-493-754A-2
 ; Sequence 2, Application US/08493754A
 Patent No. 5821338
 GENERAL INFORMATION:
 APPLICANT: Godwin, Andrew K.
 TITLE OF INVENTION: No. 5821338el Gene Associated with Suppression
 OF Tumor Development
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dann, Dorfman, Herrell and Skillman
 STREET: 1601 Market Street
 CITY: Philadelphia
 STATE: PA
 COUNTRY: USA
 ZIP: 19103-2307
 COMPUTER READABLE FORM:
 1
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/493,754A
 FILING DATE: 22-JUN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Hagan, Patrick J.
 REGISTRATION NUMBER: 27,643
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 563-4100
 TELEFAX: (215) 563-4044
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 443 amino acids
 TYPE: amino acid

```

; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-493-754A-2

```

Query Match	52.2%	Score 35;	DB 2;	Length 443;
Best Local Similarity	46.2%;	Pred. NO. 1.4e+02;		
Matches	6;	Conservative	3;	Mismatches 4;
			Indels	0;
			Gaps	0;

Search completed: July 16, 2003, 06:59:06
Job time : 3.94949 secs